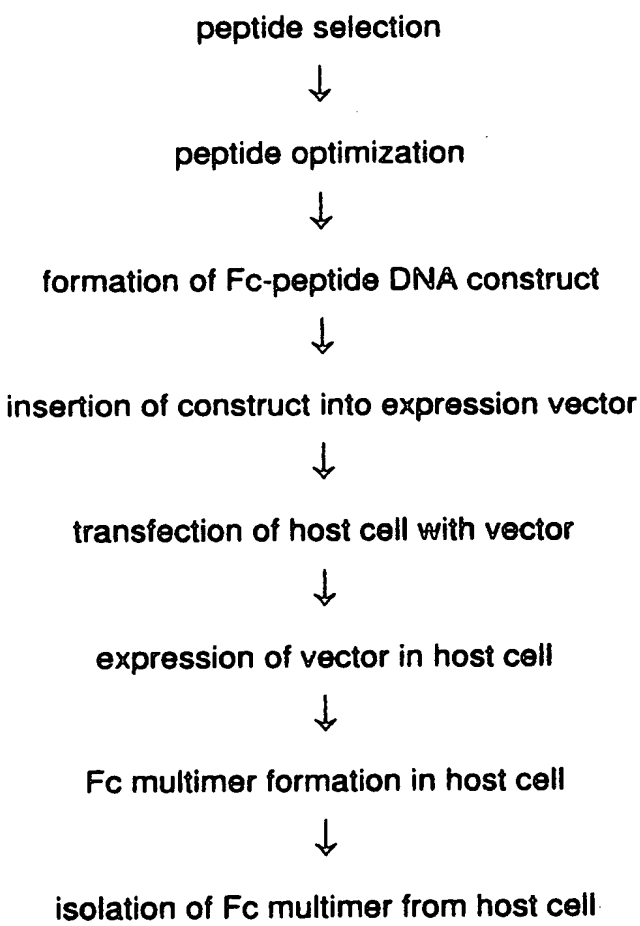
FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG. 1



APPROVED O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG. 2A

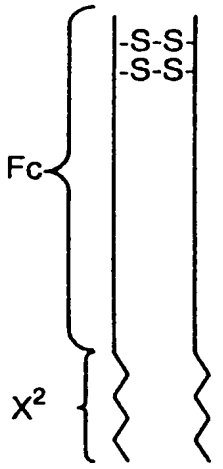


FIG. 2B

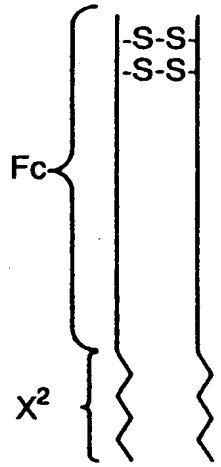


FIG. 2C

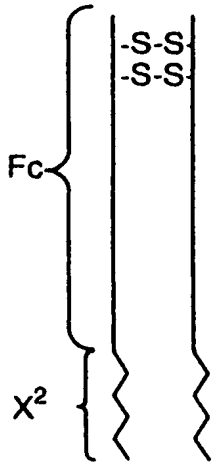


FIG. 2D

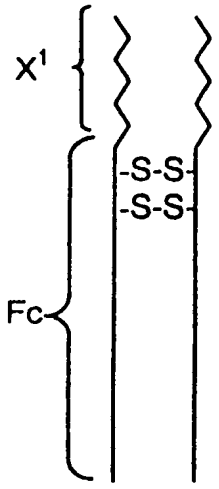


FIG. 2E

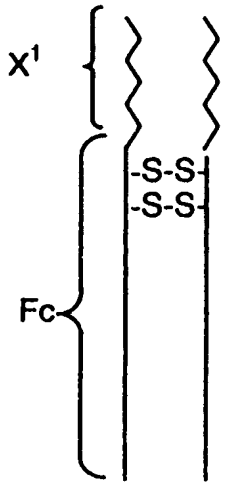


FIG. 2F

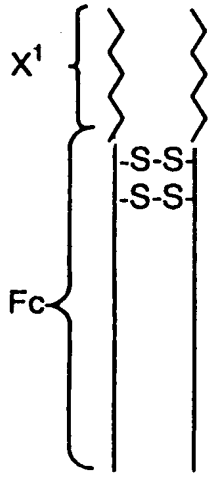


FIG.
SUBCLASS
DRAFTSMAN

FIG. 3A

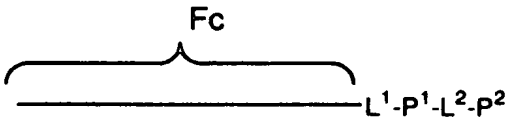


FIG. 3B

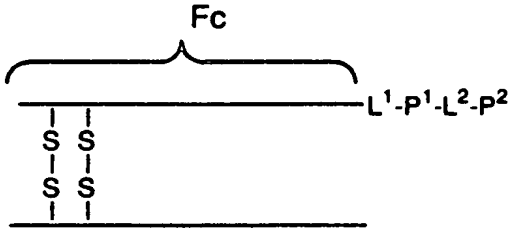


FIG. 3C

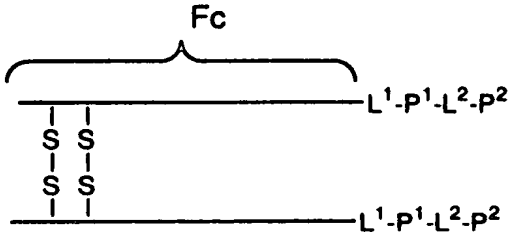
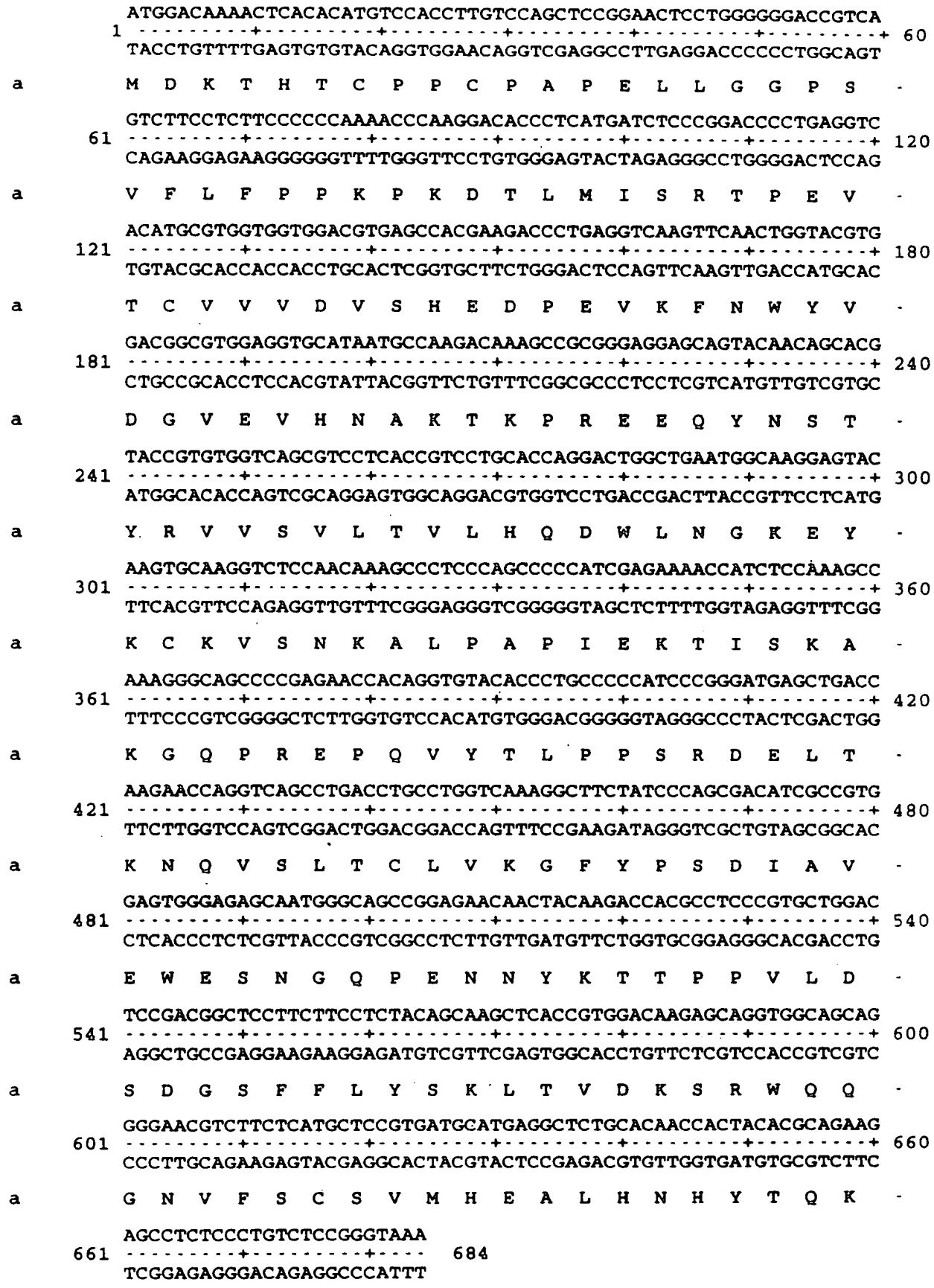


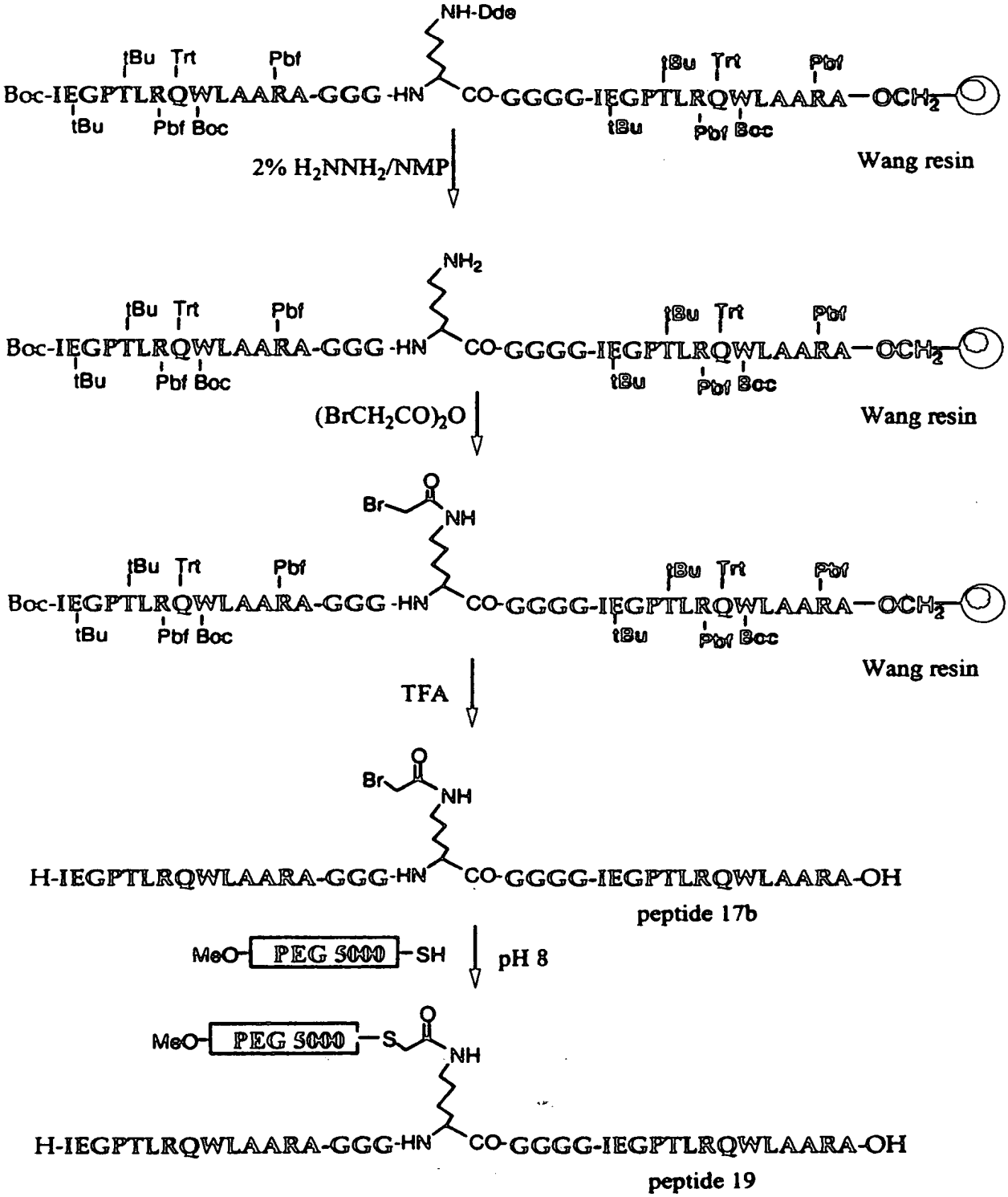
FIG. SUBCLASS

FIG. 4



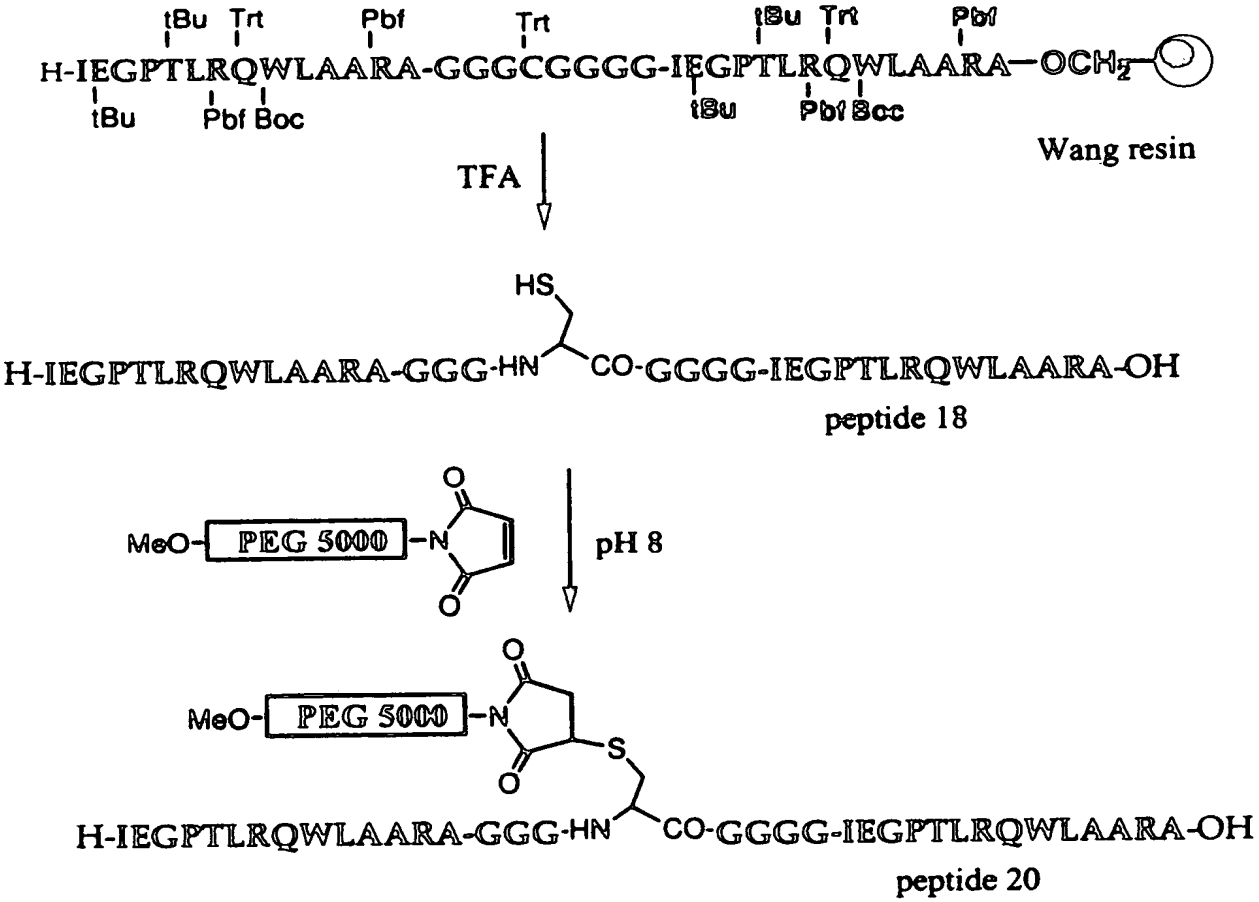
SUBCLASS

FIG. 5



APP FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG. 6



APP... FIG. ...
... SUBCLASS
DRAFTSM...

FIG. 7

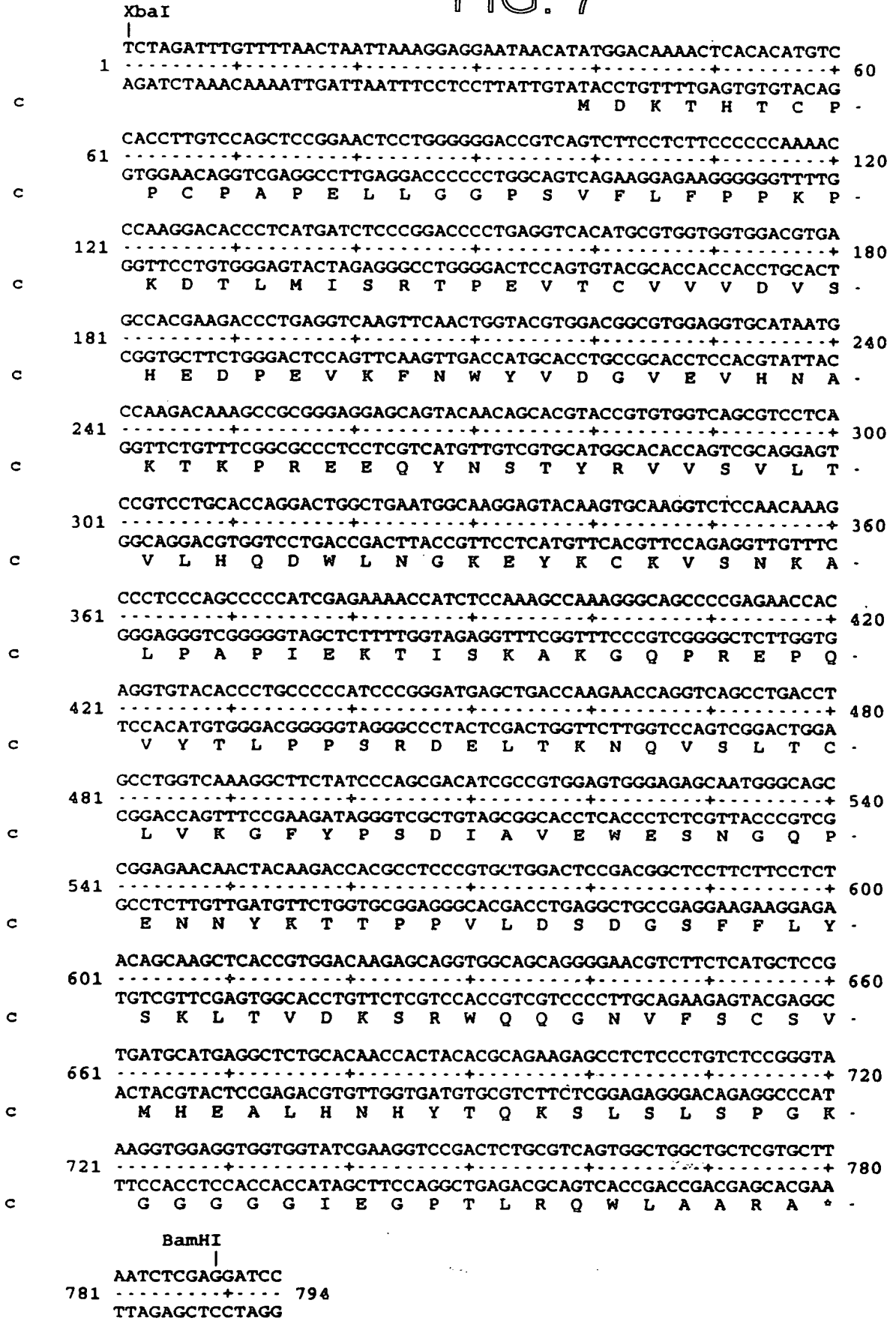


FIG.
SUBCLASS
DRAFTSMAN

FIG. 8

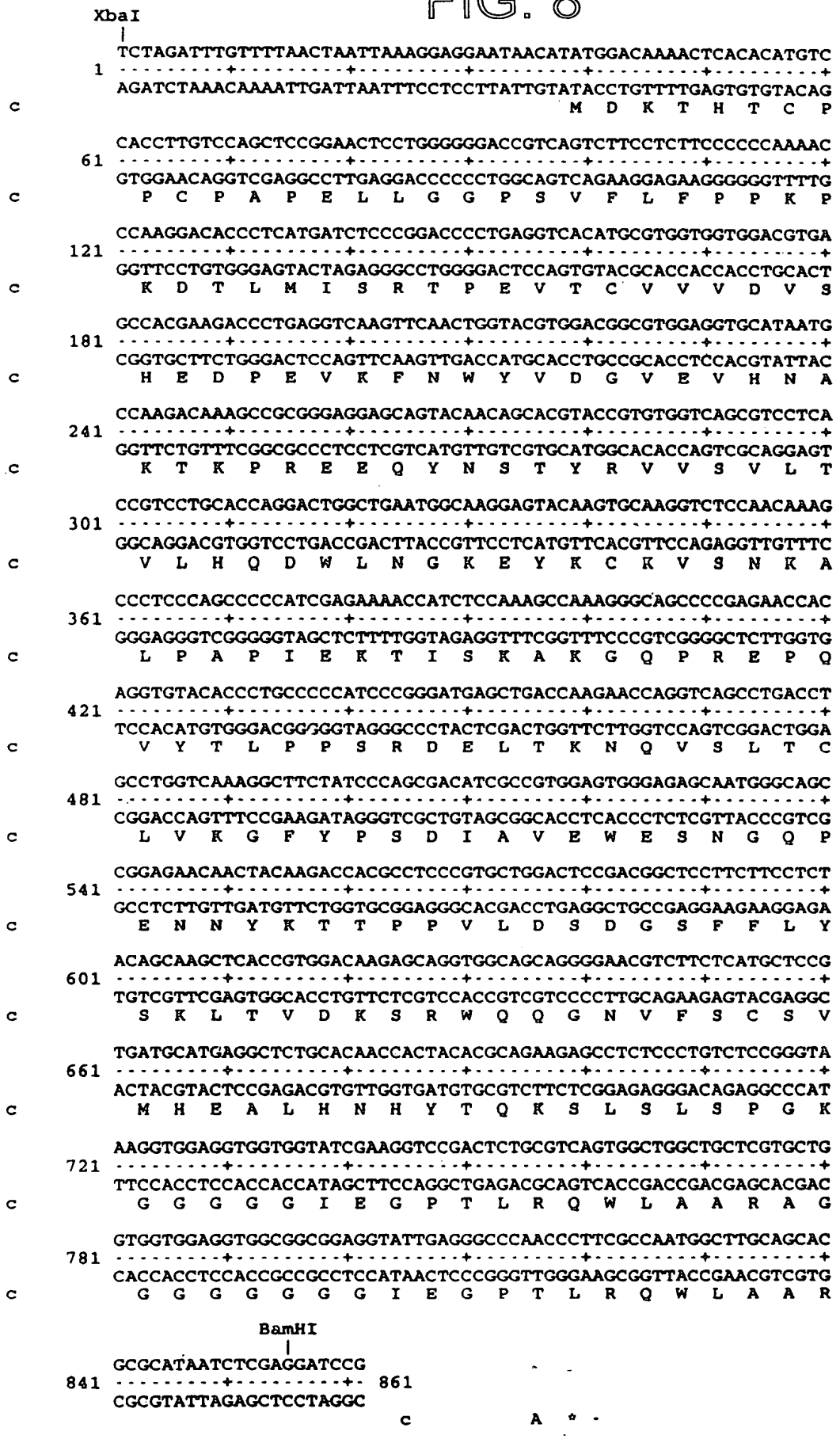


FIG. SS SUBCLASS DRAFTSMAN

FIG. 9

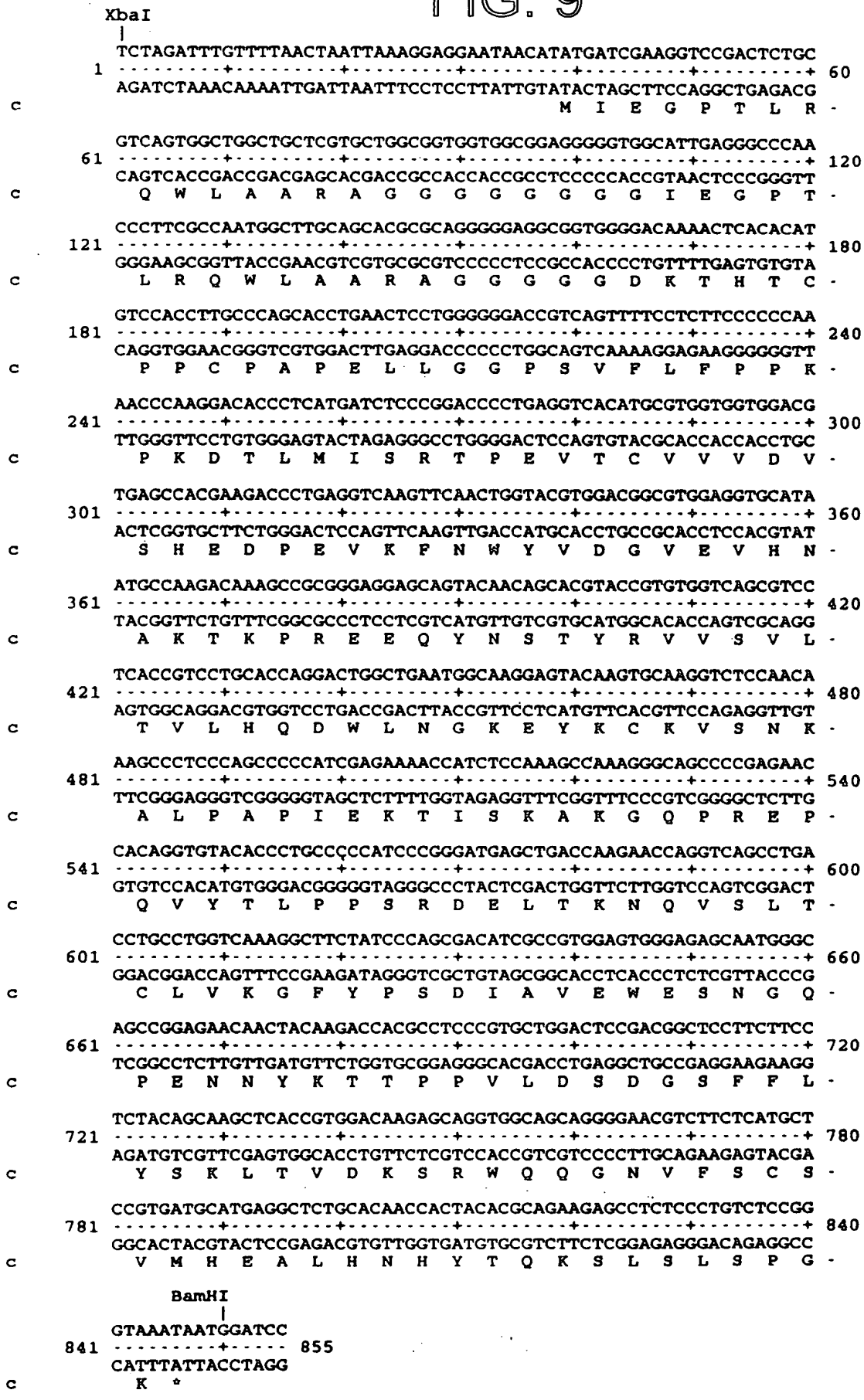


FIG. SUBCLASS DRAFTS

FIG. 10

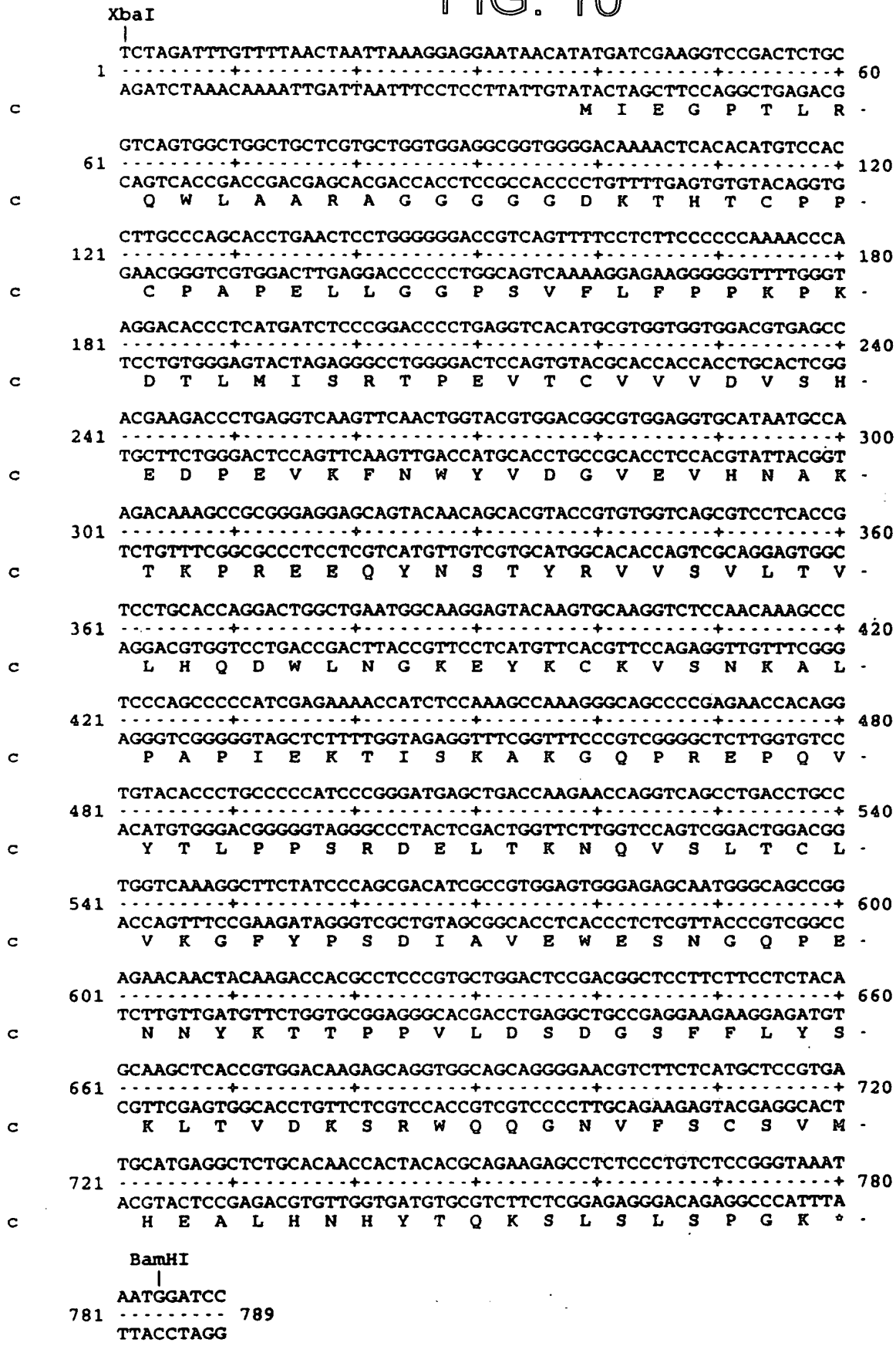
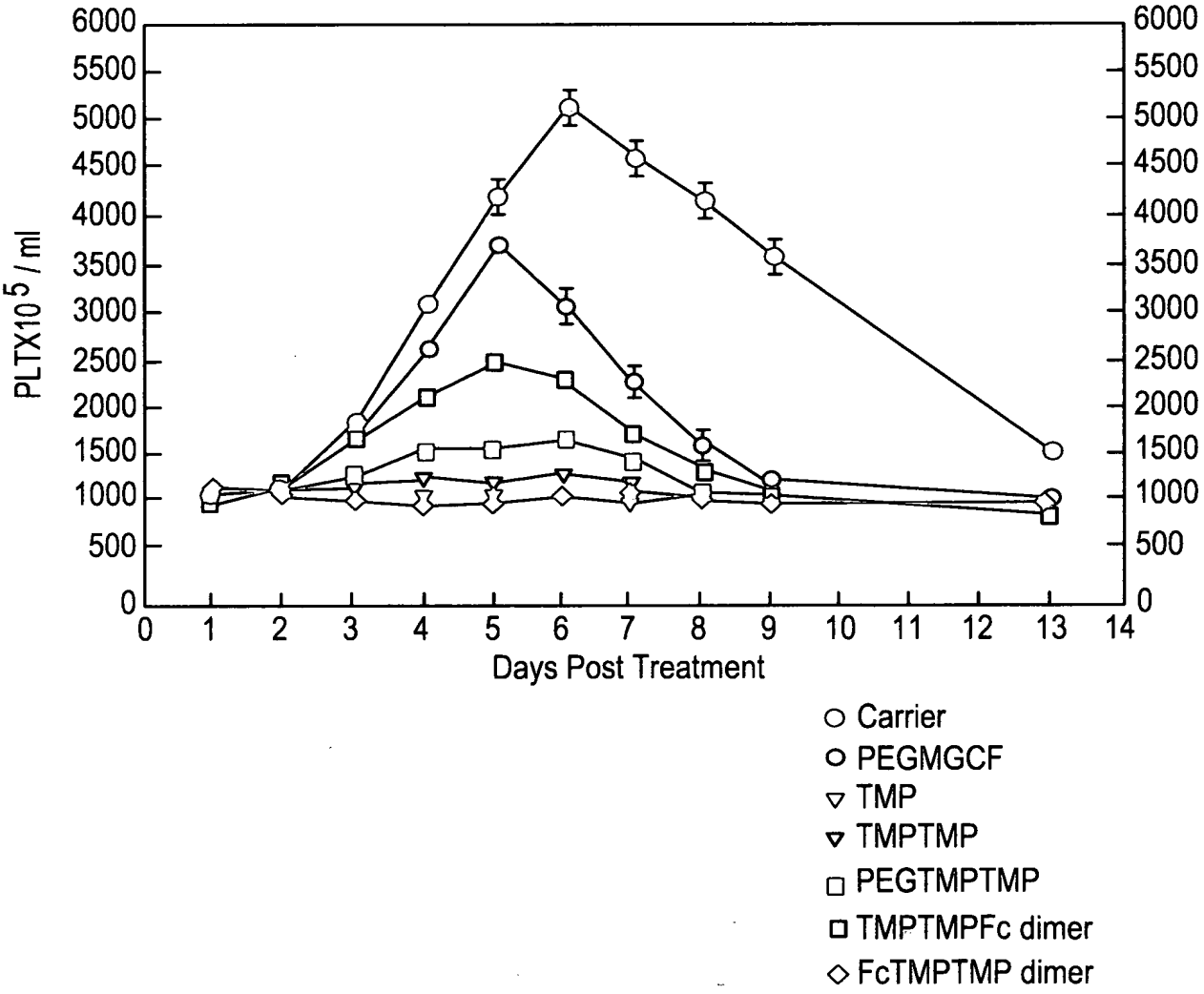


FIG.
SUBCLASS
DRAFTSMAN

FIG.11



AFFIX FIG.
CLASS | SUBCLASS
DRAFTSMAN

FIG.12

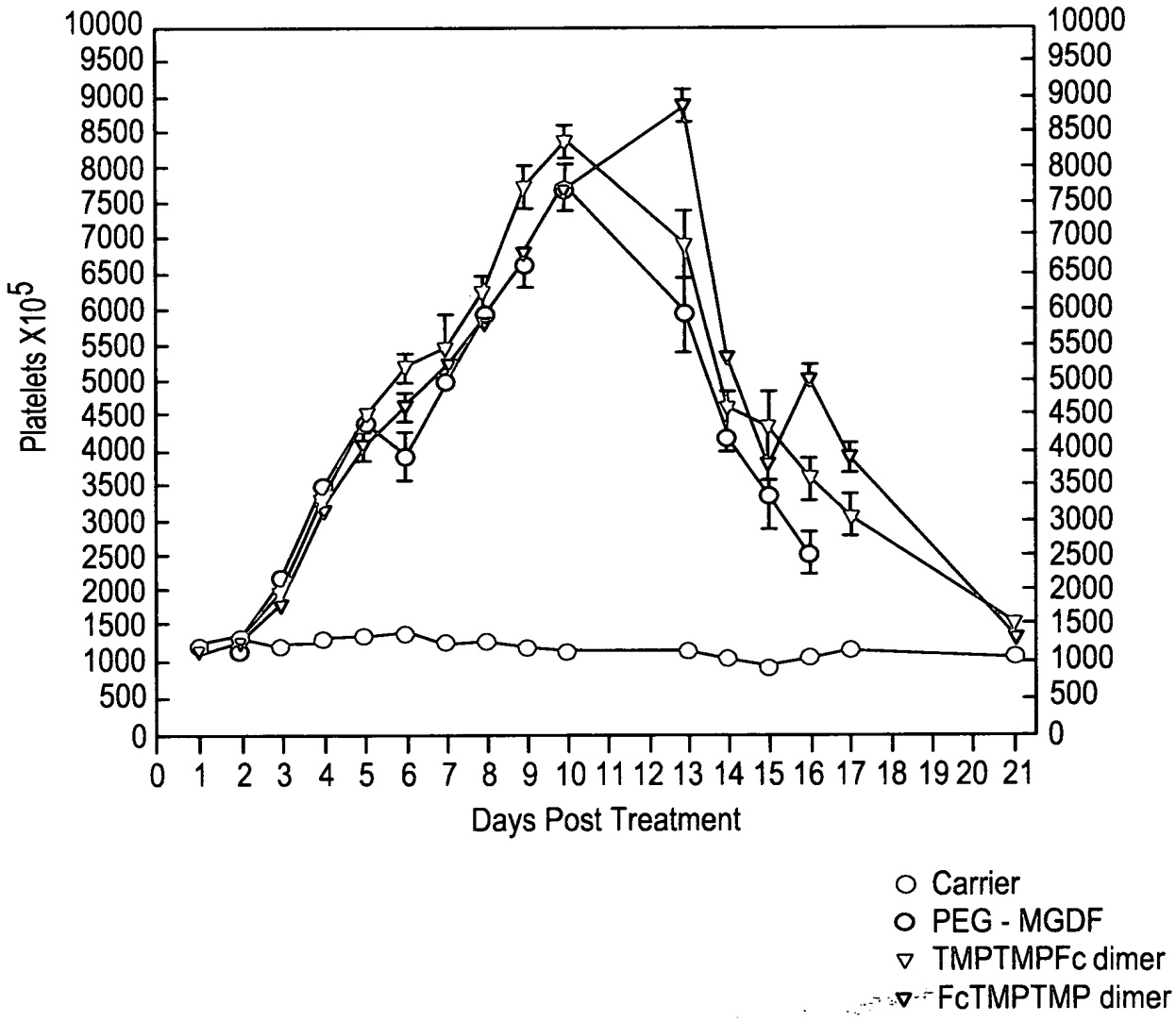


FIG.
SUBCLASS
DRAFTSMAN

FIG. 13

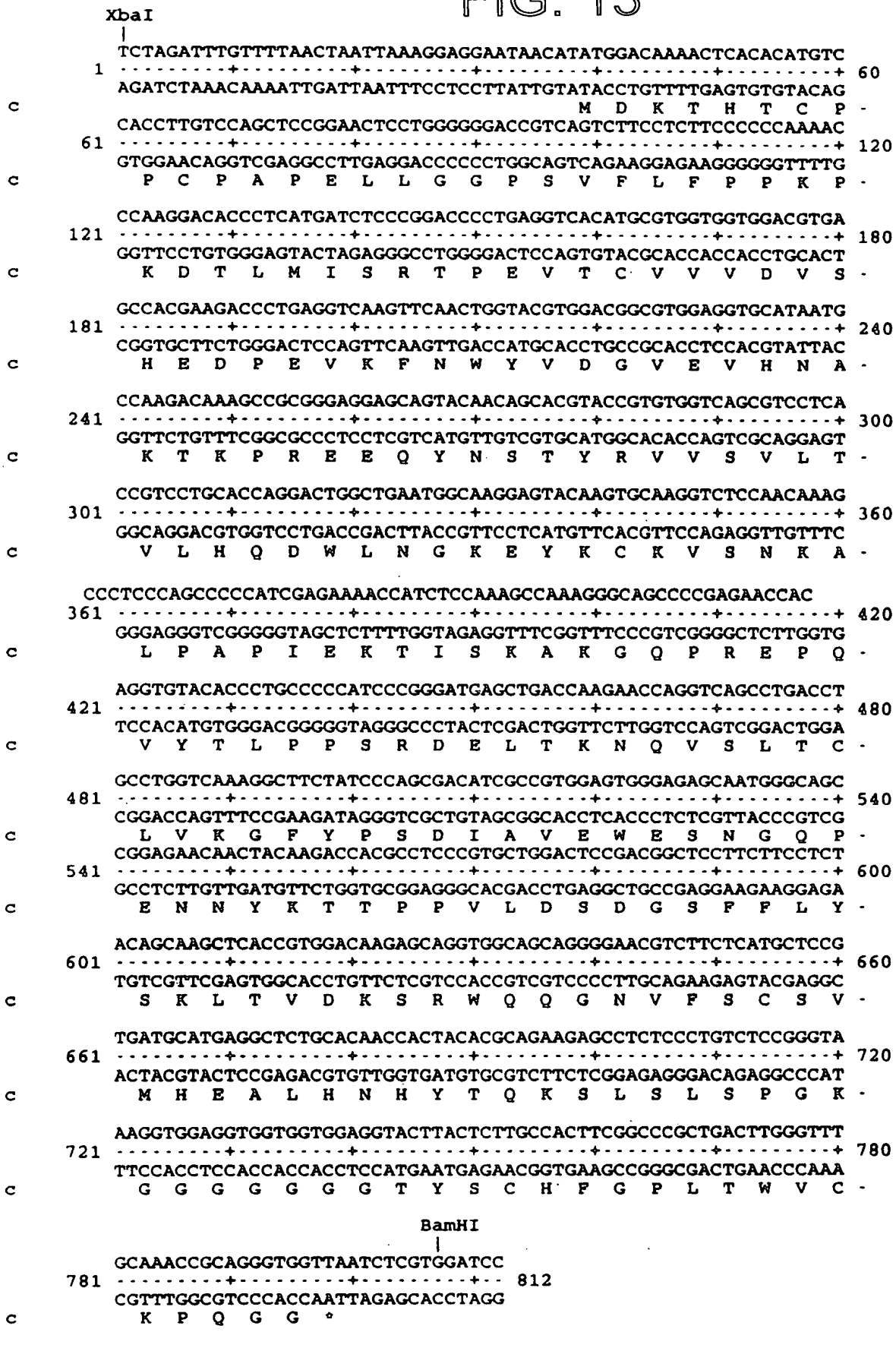


FIG. SUBCLASS

FIG. 14

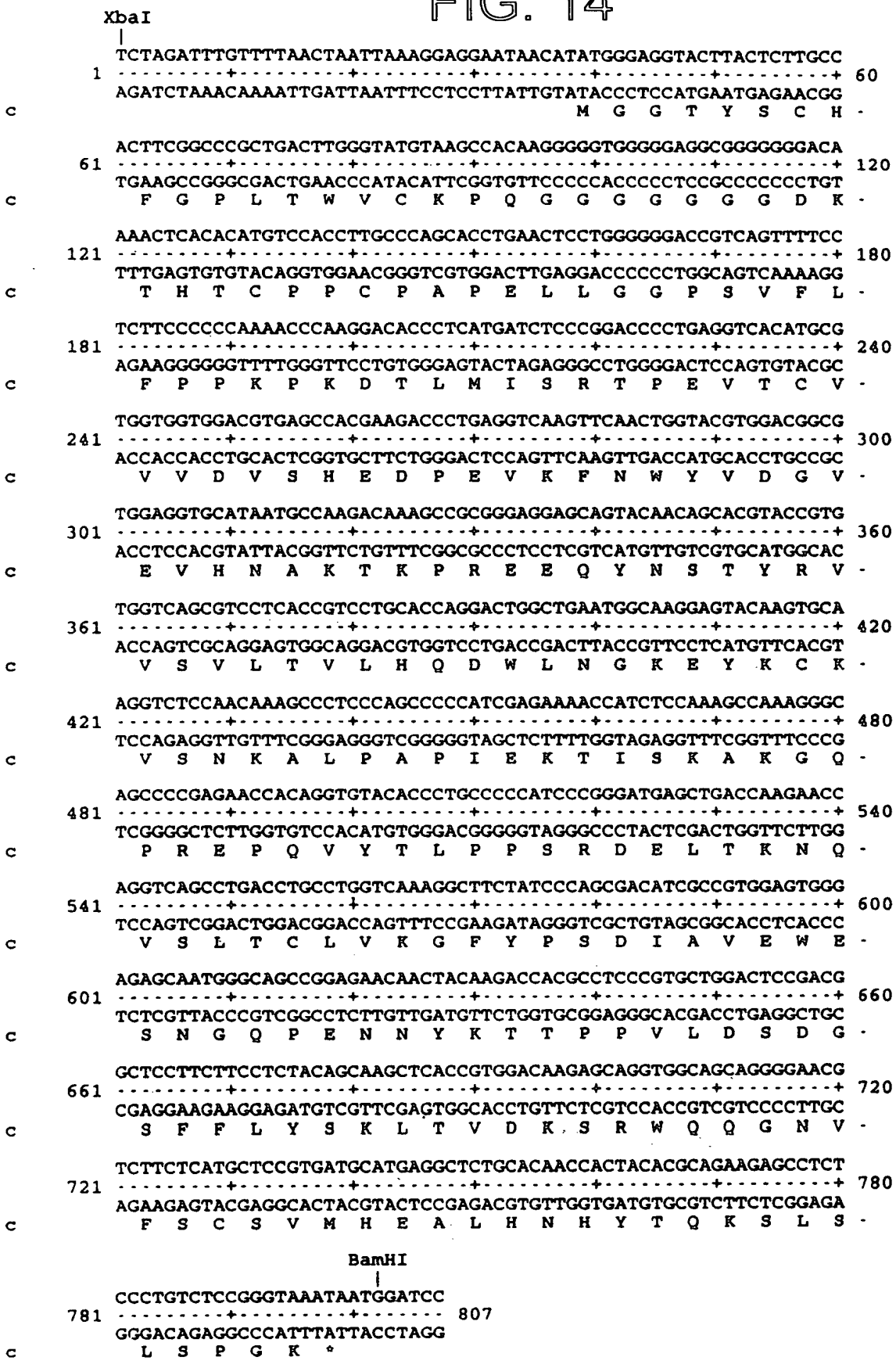


FIG. | CLASS | SUBCLASS | DRAFTSMAN

FIG. 15

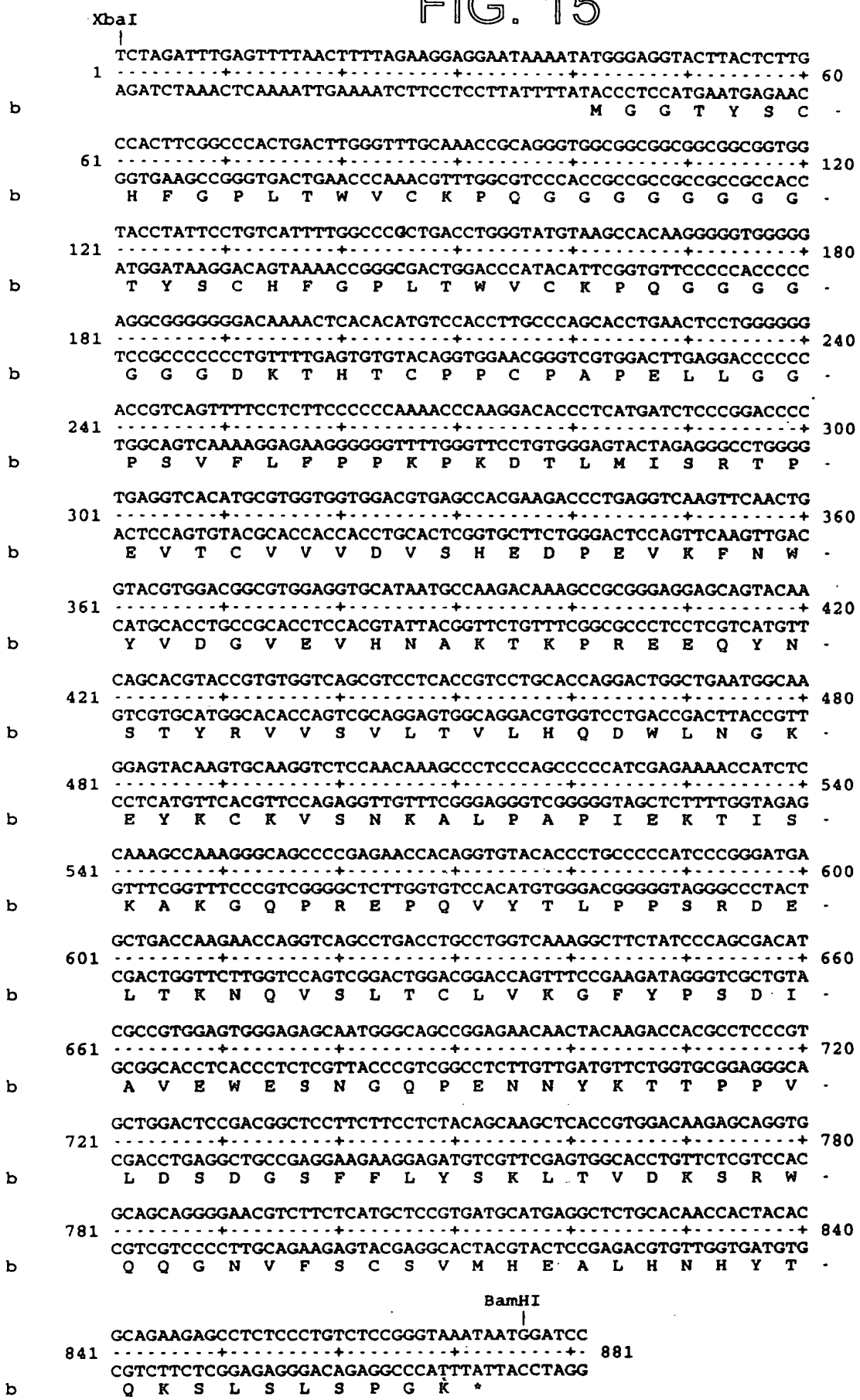


FIG.
SUBCLASS
DRAFTSMAN

FIG. 16

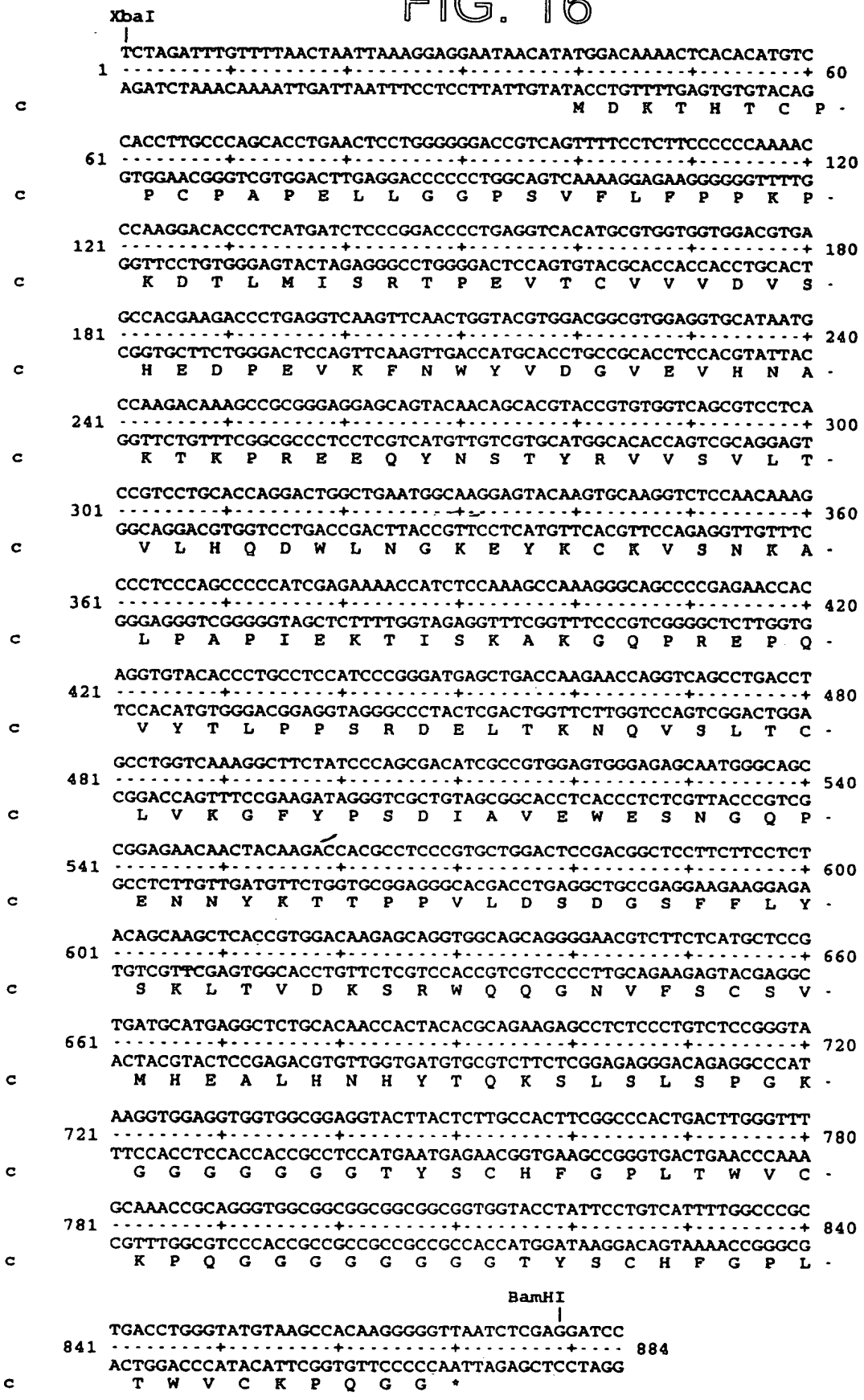


FIG. SUBCLASS DRAFTSMAN

FIG. 17A

APP. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG. 17B

-ATTGGATTTTTGTCACACTATTATATCGCTTGAAATACAATTGTTTAACATAAGTACCTG-
-TAACCTAAAAACAGTGTGATAATATAGCGAACTTTATGTTAACAAATTGTATTCATGGAC-

-TAGGATCGTACAGGTTTACGCAAGAAAATGGTTTGTTATAGTCGATTAATCGATTTGATT-
-ATCCTAGCATGTCCAAATGCGTTCTTTTACCAAACAATATCAGCTAATTAGCTAAACTAA-

-CTAGATTTGTTTTAACTAATTAAAGGAGGAATAACATATGGTTAACGCGTTGGAATTCGA-
-GATCTAAACAAAATTGATTAATTTCCTCCTTATTGTATACCAATTGCGCAACCTTAAGCT-

SacII
-GCTCACTAGTGTCGACCTGCAGGGTACCATGGAAGCTTACTCGAGGATCCGCGGAAAGAA-
-CGAGTGATCACAGCTGGACGTCCCATGGTACCTTCGAATGAGCTCCTAGGCGCCTTTCTT-

-GAAGAAGAAGAAGAAAGCCCGAAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCAATA-
-CTTCTTCTTCTTCTTTCGGGCTTTCCTTCGACTCAACCGACGACGGTGGCGACTCGTTAT-

-ACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGCTGAAAGGAGG-
-TGATCGTATTGGGGAACCCCGGAGATTTGCCCAGAACTCCCCAAAAAACGACTTTCCTCC-

-AACCGCTCTTCACGCTCTTCACGC 3'
-TTGGCGAGAAGTGCGAGAAGTG 5'

[SacII sticky end]
(position #5904 in pAMG21)

FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG.18A - 1

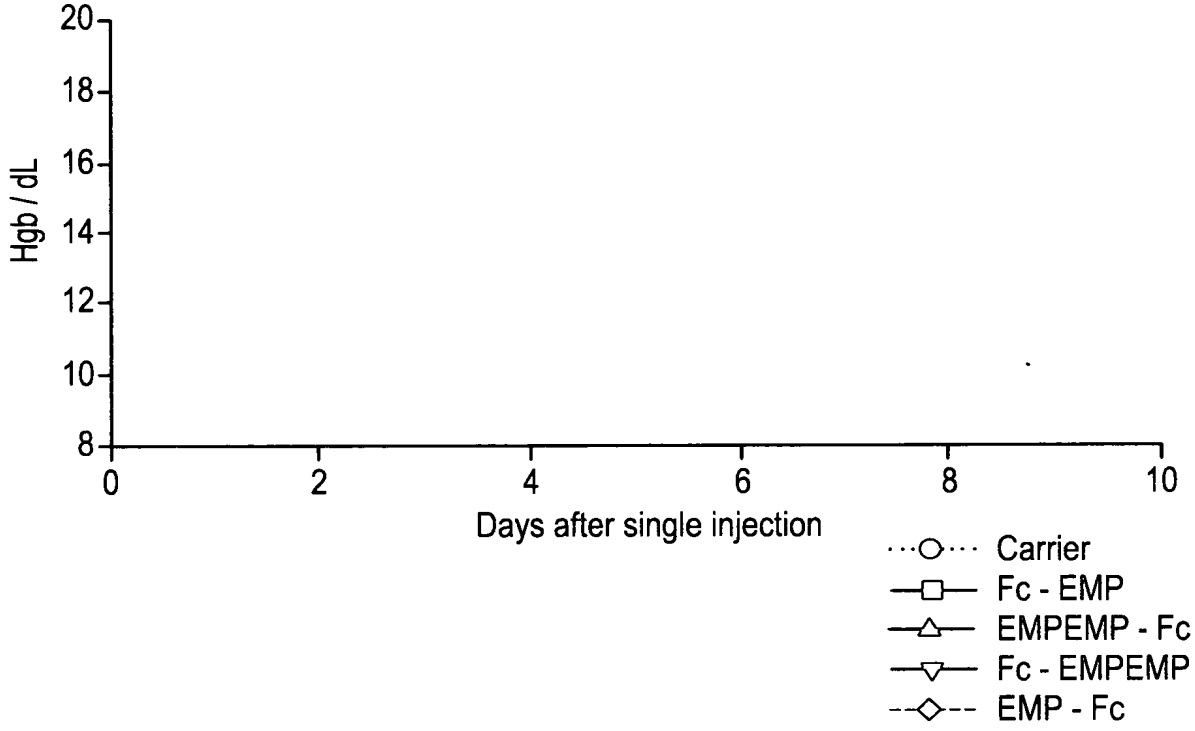
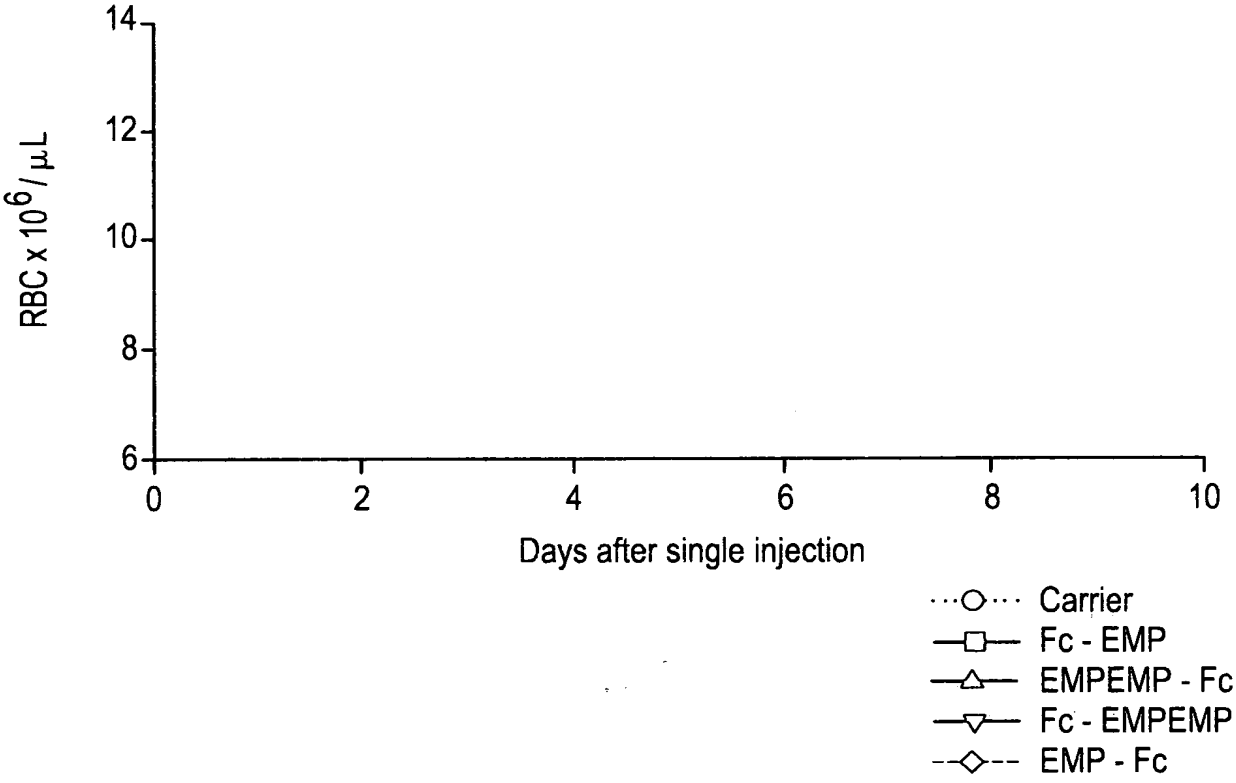


FIG.18A - 2



APPR. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

FIG.18A - 3

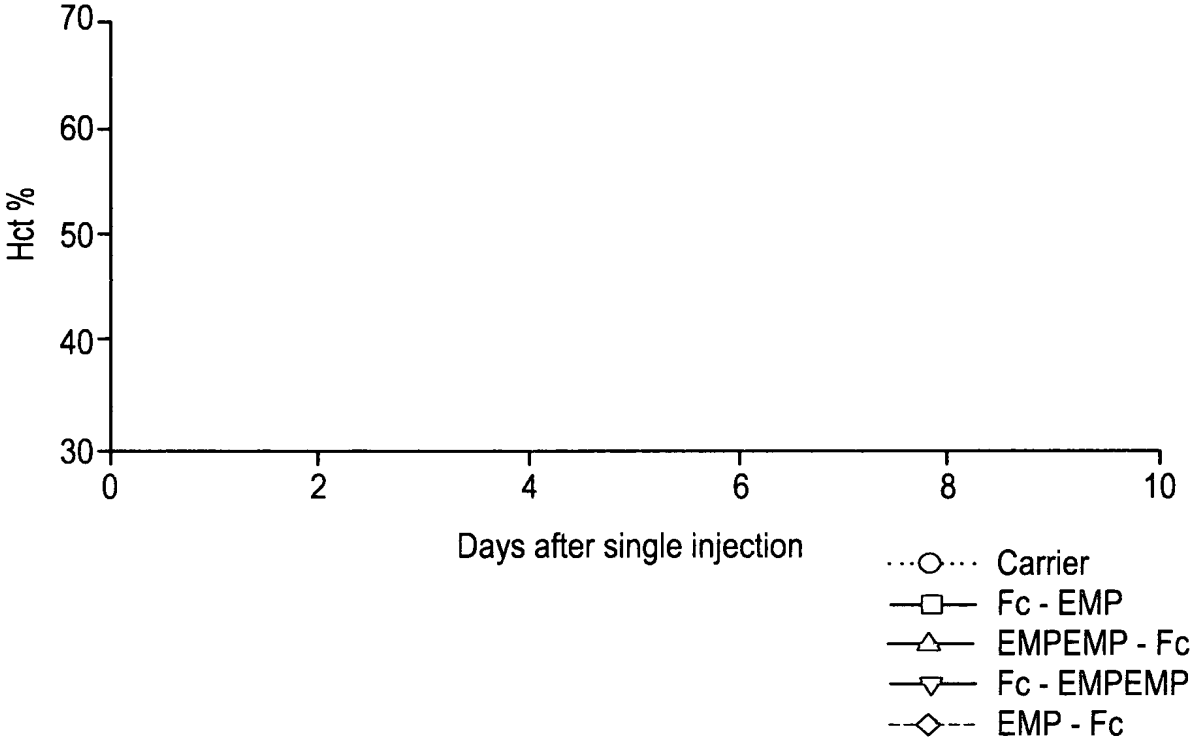
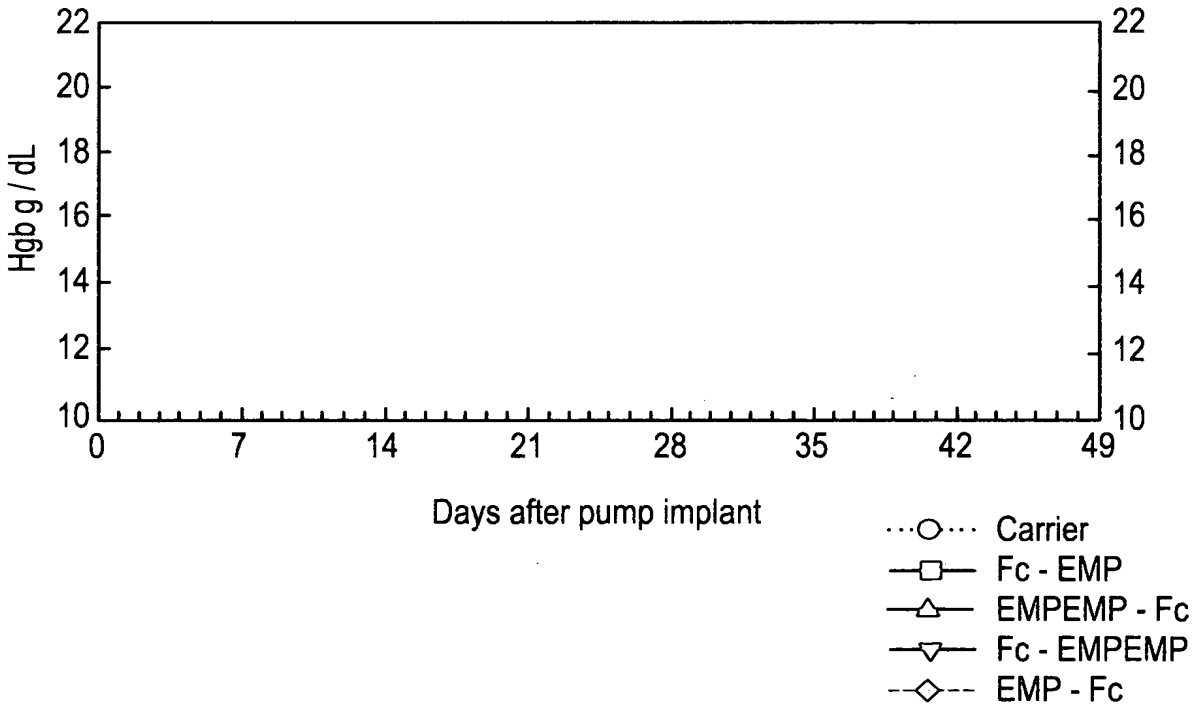


FIG.18B - 1



APPT FIG.
S SUBCLASS
DRAFTS

FIG.18B - 2

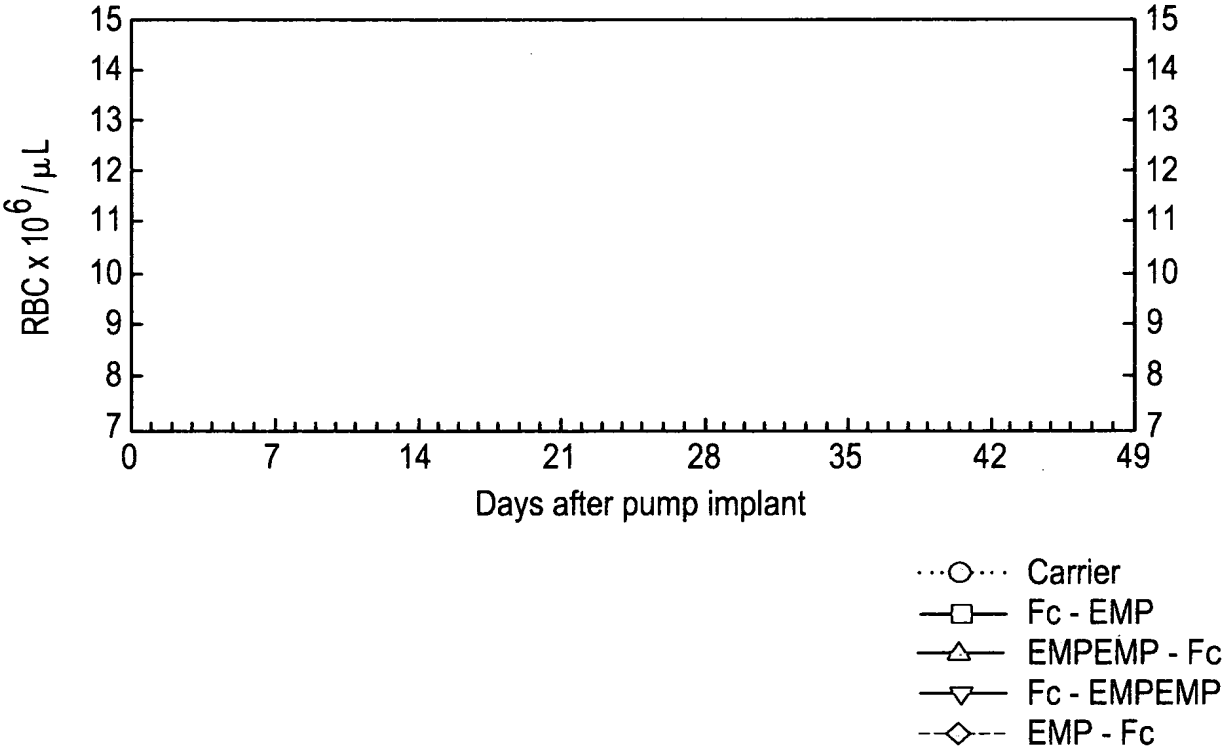


FIG.18B - 3

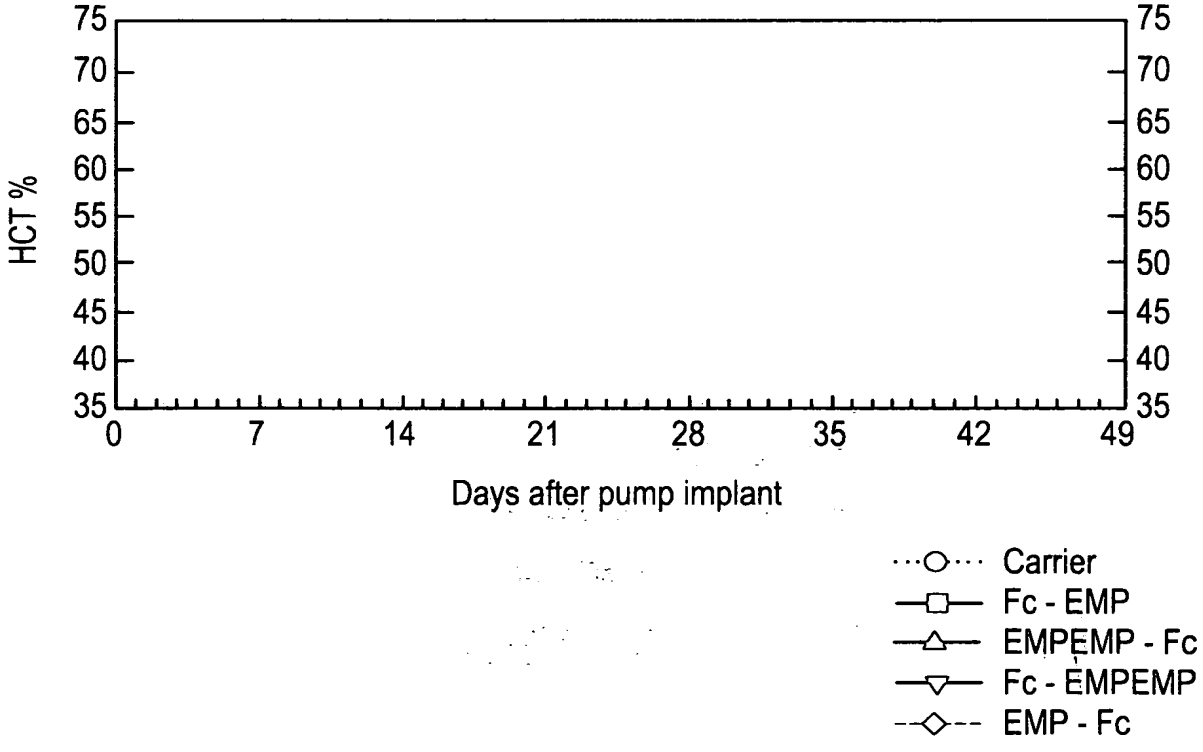


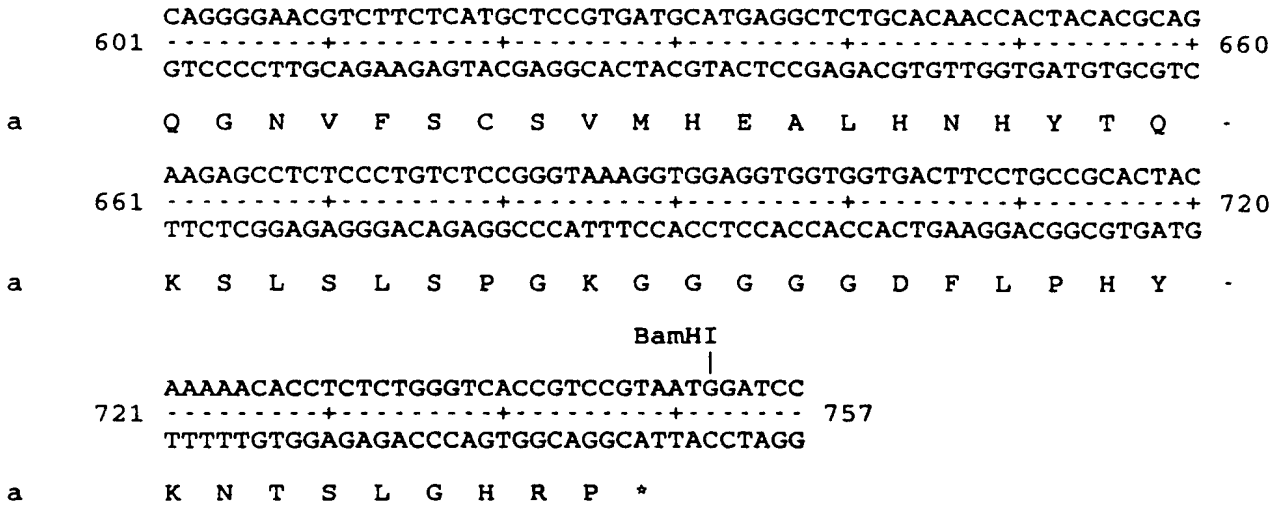
FIG. SUBCLASS DRAFTSMAN

FIG. 19A

```
NdeI
|
CATATGGACAAAACTCACACATGTCCACCTTGTCCAGCTCCGGAACTCCTGGGGGGACCG
1 ---------+---------+---------+---------+---------+---------+ 60
GTATACCTGTTTTGAGTGTGTACAGGTGGAACAGGTCGAGGCCTTGAGGACCCCCCTGGC

a    M  D  K  T  H  T  C  P  P  C  P  A  P  E  L  L  G  G  P  -

TCAGTCTTCCTCTTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAG
61 ---------+---------+---------+---------+---------+---------+ 120
AGTCAGAAGGAGAAGGGGGGTTTTGGGTTCCTGTGGGAGTACTAGAGGGCCTGGGGACTC

a    S  V  F  L  F  P  P  K  P  K  D  T  L  M  I  S  R  T  P  E  -

GTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTAC
121 ---------+---------+---------+---------+---------+---------+ 180
CAGTGTACGCACCACCACCTGCACTCGGTGCTTCTGGGACTCCAGTTCAAGTTGACCATG

a    V  T  C  V  V  V  D  V  S  H  E  D  P  E  V  K  F  N  W  Y  -

GTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGC
181 ---------+---------+---------+---------+---------+---------+ 240
CACCTGCCGCACCTCCACGTATTACGGTTCTGTTTCGGCGCCCTCCTCGTCATGTTGTCG

a    V  D  G  V  E  V  H  N  A  K  T  K  P  R  E  E  Q  Y  N  S  -

ACGTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAG
241 ---------+---------+---------+---------+---------+---------+ 300
TGCATGGCACACCAGTCGCAGGAGTGGCAGGACGTGGTCCTGACCGACTTACCGTTCCTC

a    T  Y  R  V  V  S  V  L  T  V  L  H  Q  D  W  L  N  G  K  E  -

TACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAA
301 ---------+---------+---------+---------+---------+---------+ 360
ATGTTCACGTTCCAGAGGTTGTTTCGGGAGGGTCGGGGGTAGCTCTTTTGGTAGAGGTTT

a    Y  K  C  K  V  S  N  K  A  L  P  A  P  I  E  K  T  I  S  K  -

GCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTG
361 ---------+---------+---------+---------+---------+---------+ 420
CGGTTTCCCGTCGGGGCTCTTGGTGTCCACATGTGGGACGGGGGTAGGGCCCTACTCGAC

a    A  K  G  Q  P  R  E  P  Q  V  Y  T  L  P  P  S  R  D  E  L  -

ACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCC
421 ---------+---------+---------+---------+---------+---------+ 480
TGGTTCTTGGTCCAGTCGGACTGGACGGACCAGTTTCCGAAGATAGGGTCGCTGTAGCGG

a    T  K  N  Q  V  S  L  T  C  L  V  K  G  F  Y  P  S  D  I  A  -

GTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTG
481 ---------+---------+---------+---------+---------+---------+ 540
CACCTCACCCTCTCGTTACCCGTCGGCCTCTTGTTGATGTTCTGGTGCGGAGGGCACGAC

a    V  E  W  E  S  N  G  Q  P  E  N  N  Y  K  T  T  P  P  V  L  -

GACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAG
541 ---------+---------+---------+---------+---------+---------+ 600
CTGAGGCTGCCGAGGAAGAAGGAGATGTCGTTCGAGTGGCACCTGTTCTCGTCCACCGTC

a    D  S  D  G  S  F  F  L  Y  S  K  L  T  V  D  K  S  R  W  Q  -
```

FIG.
CLASS SUBCLASS
DRAFTSM

FIG. 19B



APP... FIG.
... CLASS | SUBCLASS
DRAFTS...

FIG. 20A

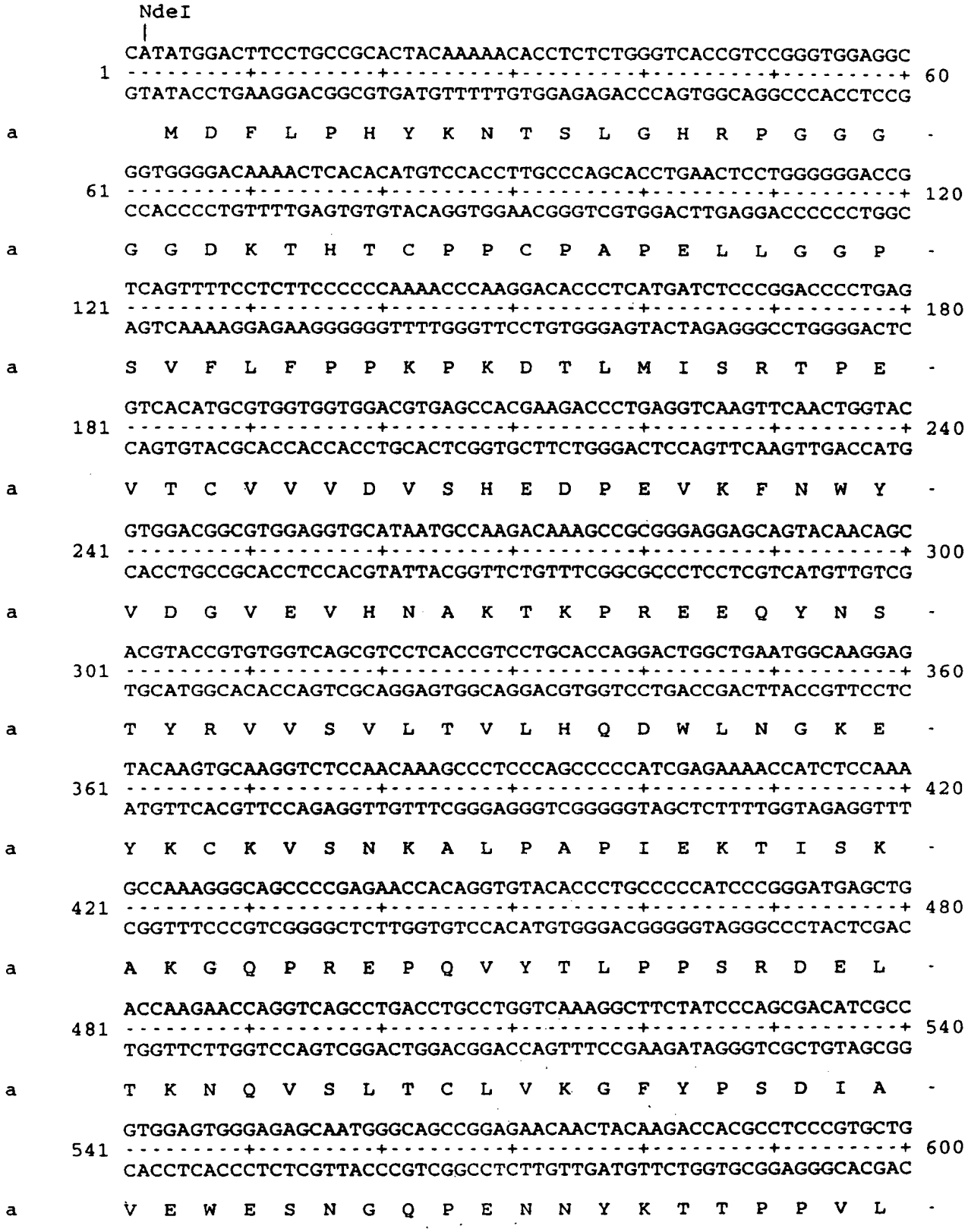
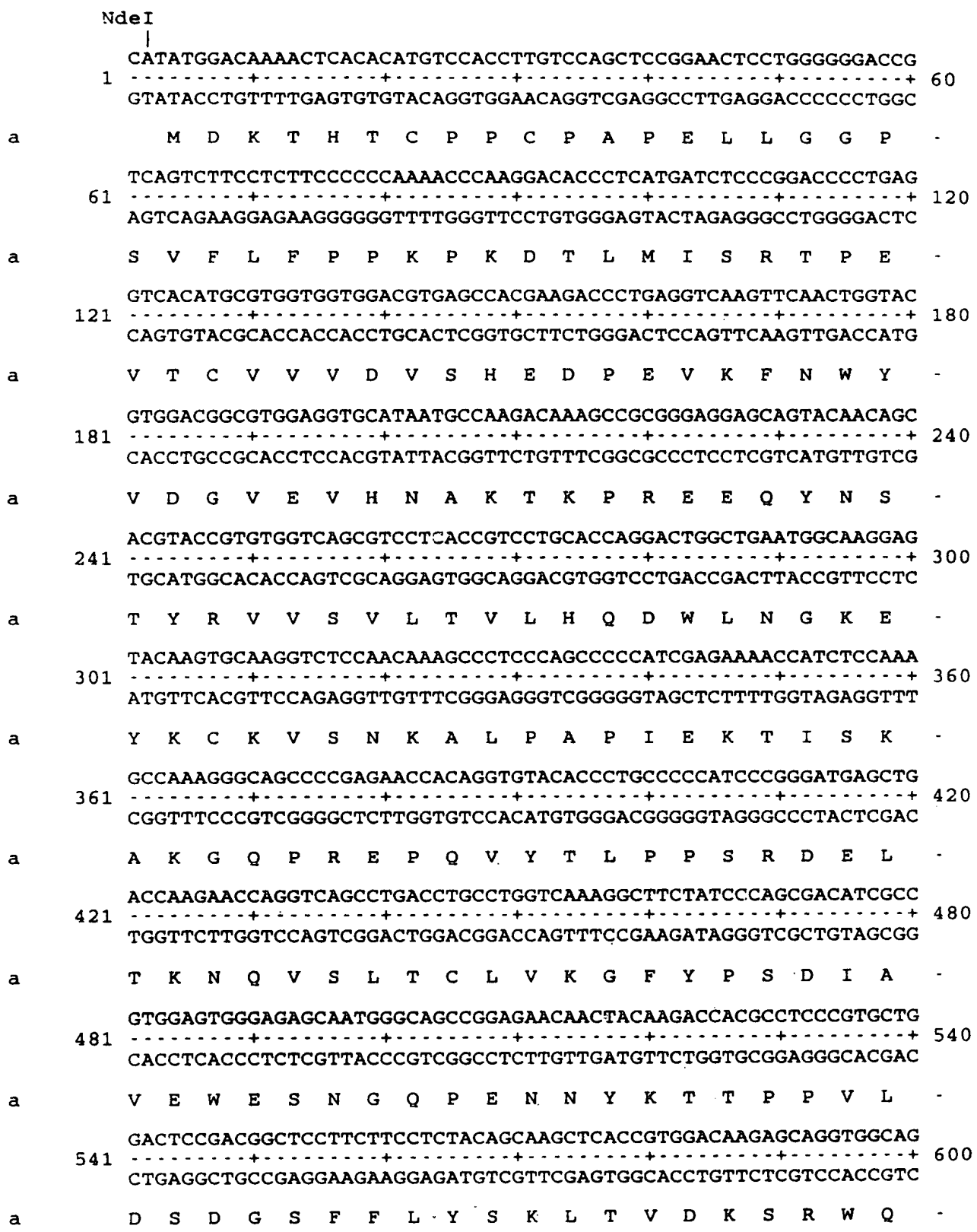


FIG.
SUBCLASS
DRAFTSMAN

FIG. 20B

APP... FIG.
...SS | SUBCLASS
DRAFTS...

FIG. 21A



APP... FIG.
... CLASS | SUBCLASS
DRAFTSM...

FIG. 21B

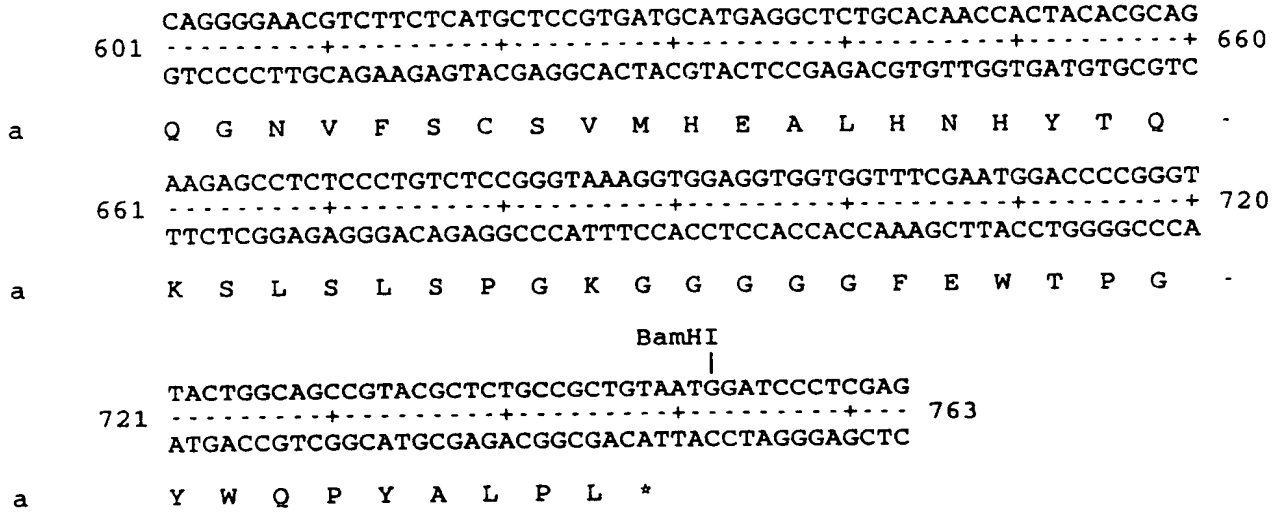
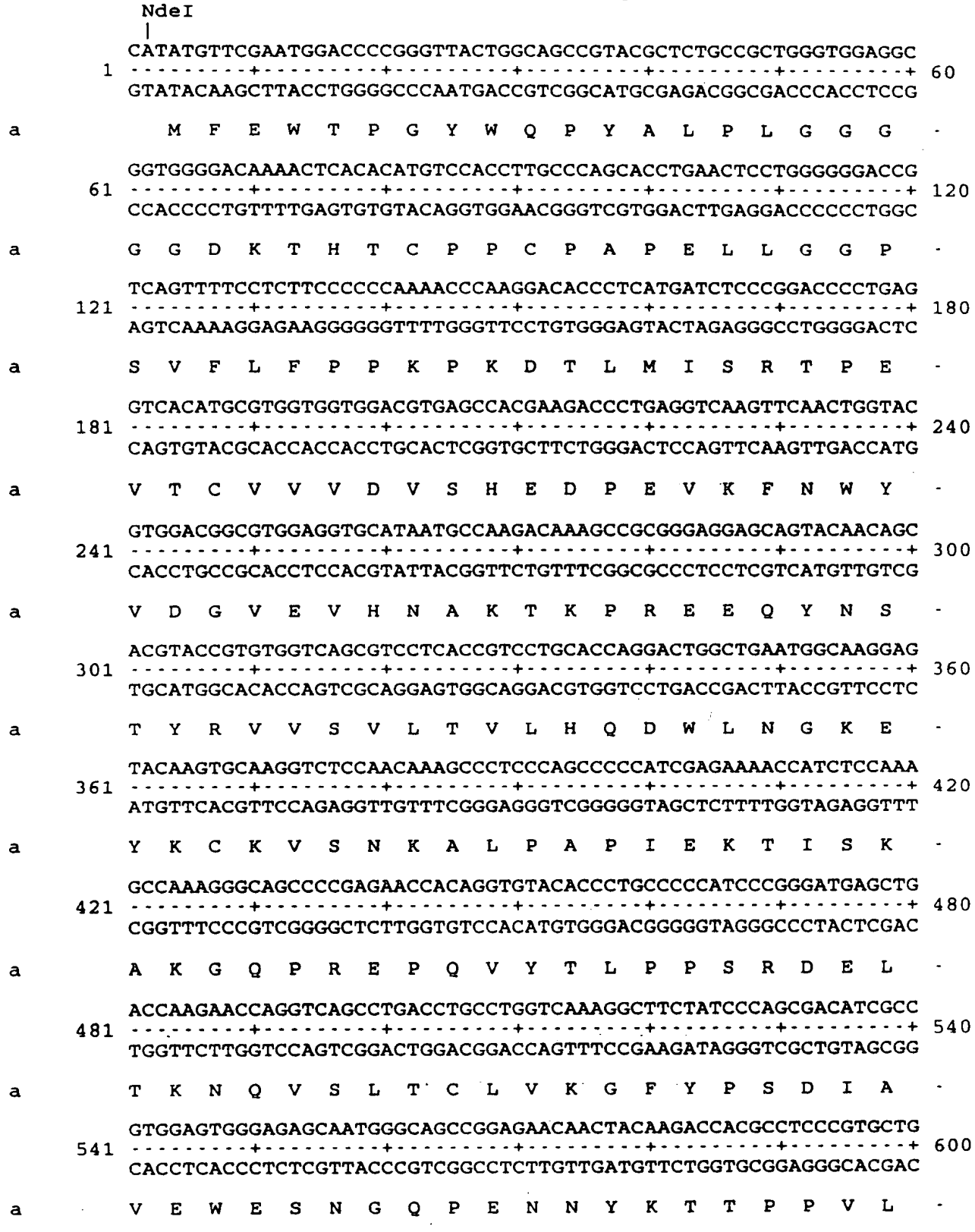


FIG. CLASS SUBCLASS DRAFTSMAN

FIG. 22A



APP... FIG.
E... CLASS SUBCLASS
DRAFTSM...

FIG. 22B

```
        GACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAG
601     ---------+---------+---------+---------+---------+---------+ 660
        CTGAGGCTGCCGAGGAAGAAGGAGATGTCGTTCGAGTGGCACCTGTTCTCGTCCACCGTC

a       D  S  D  G  S  F  F  L  Y  S  K  L  T  V  D  K  S  R  W  Q  -

        CAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAG
661     ---------+---------+---------+---------+---------+---------+ 720
        GTCCCCTTGCAGAAGAGTACGAGGCACTACGTACTCCGAGACGTGTTGGTGATGTGCGTC

a       Q  G  N  V  F  S  C  S  V  M  H  E  A  L  H  N  H  Y  T  Q  -

                                          BamHI
                                            |
        AAGAGCCTCTCCCTGTCTCCGGGTAAATAATGGATCC
721     ---------+---------+---------+------- 757
        TTCTCGGAGAGGGACAGAGGCCCATTTATTACCTAGG

a       K  S  L  S  L  S  P  G  K  *
```

FIG. | CLASS | SUBCLASS | DRAFTSMAN

FIG. 23A

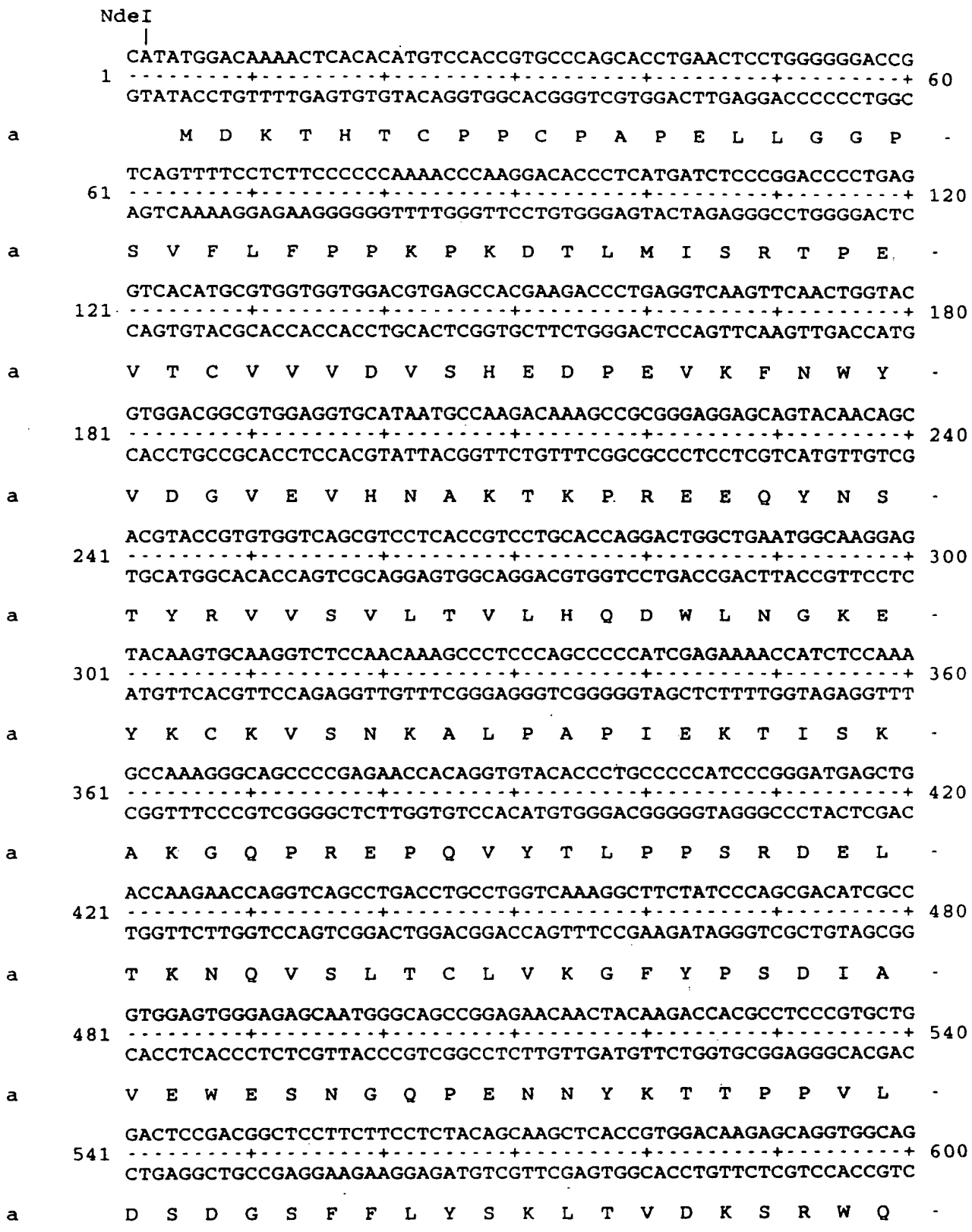
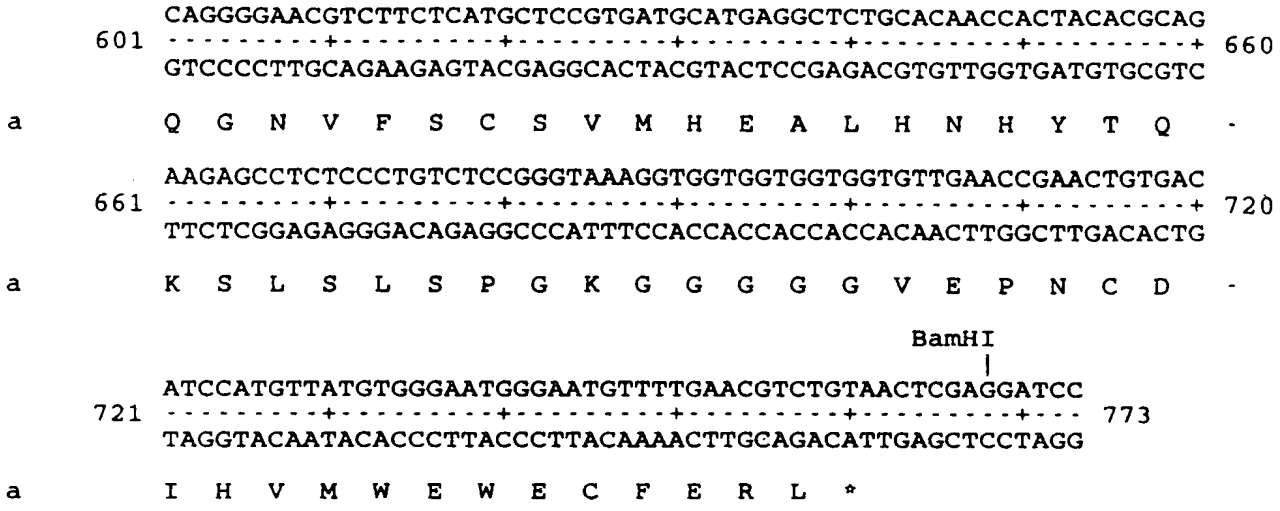


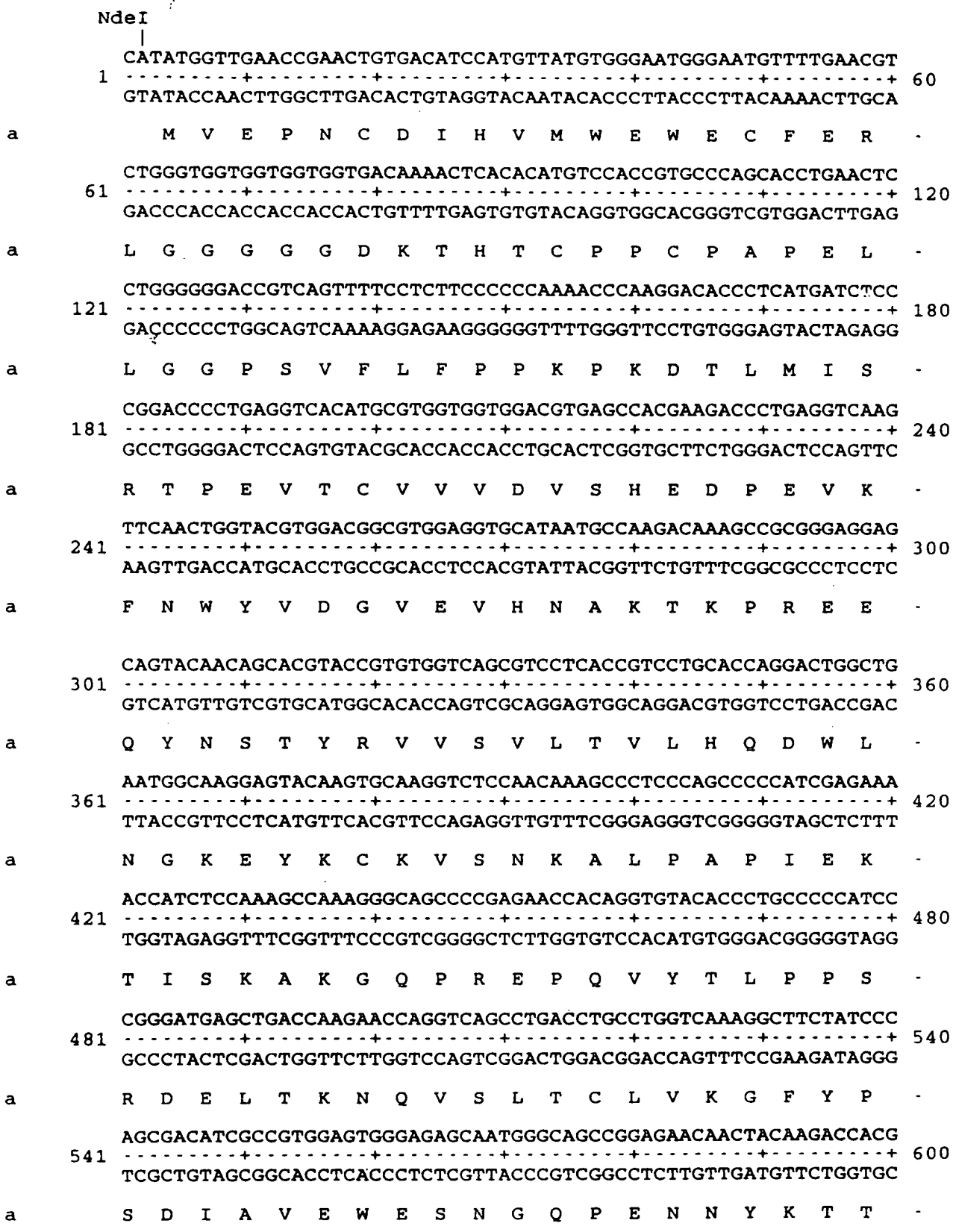
FIG. SUBCLASS DRAFTSMAN

FIG. 23B



APP. FIG. SUBCLASS DRAFTSMAN

FIG. 24A



ART UNIT | FIG. | SUBCLASS | DRAFTSMAN

FIG. 24B

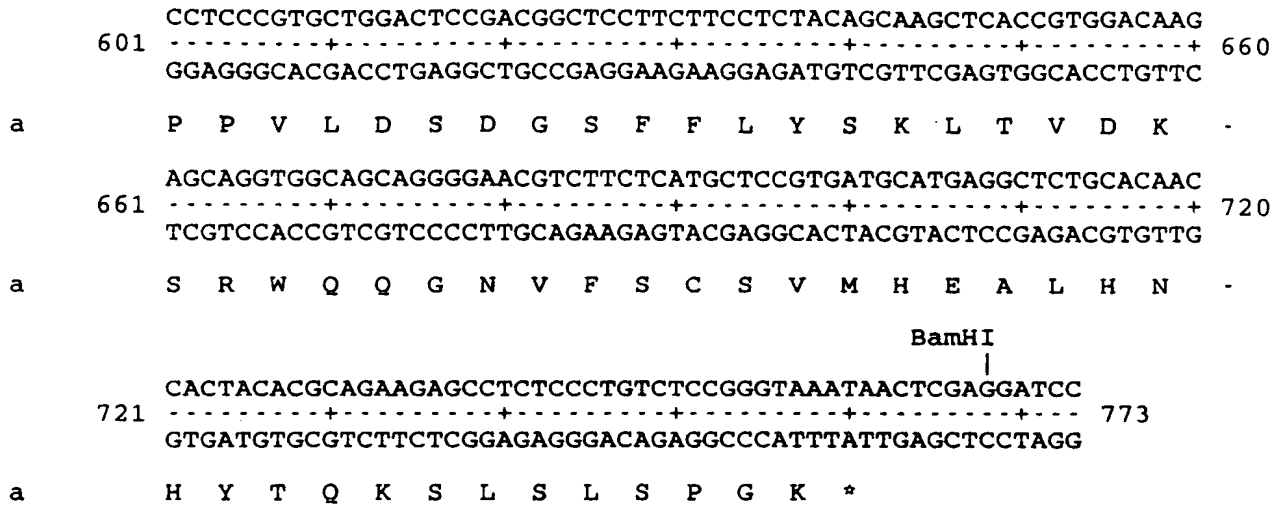


FIG.
SUBCLASS
DRAFTS

FIG. 25A

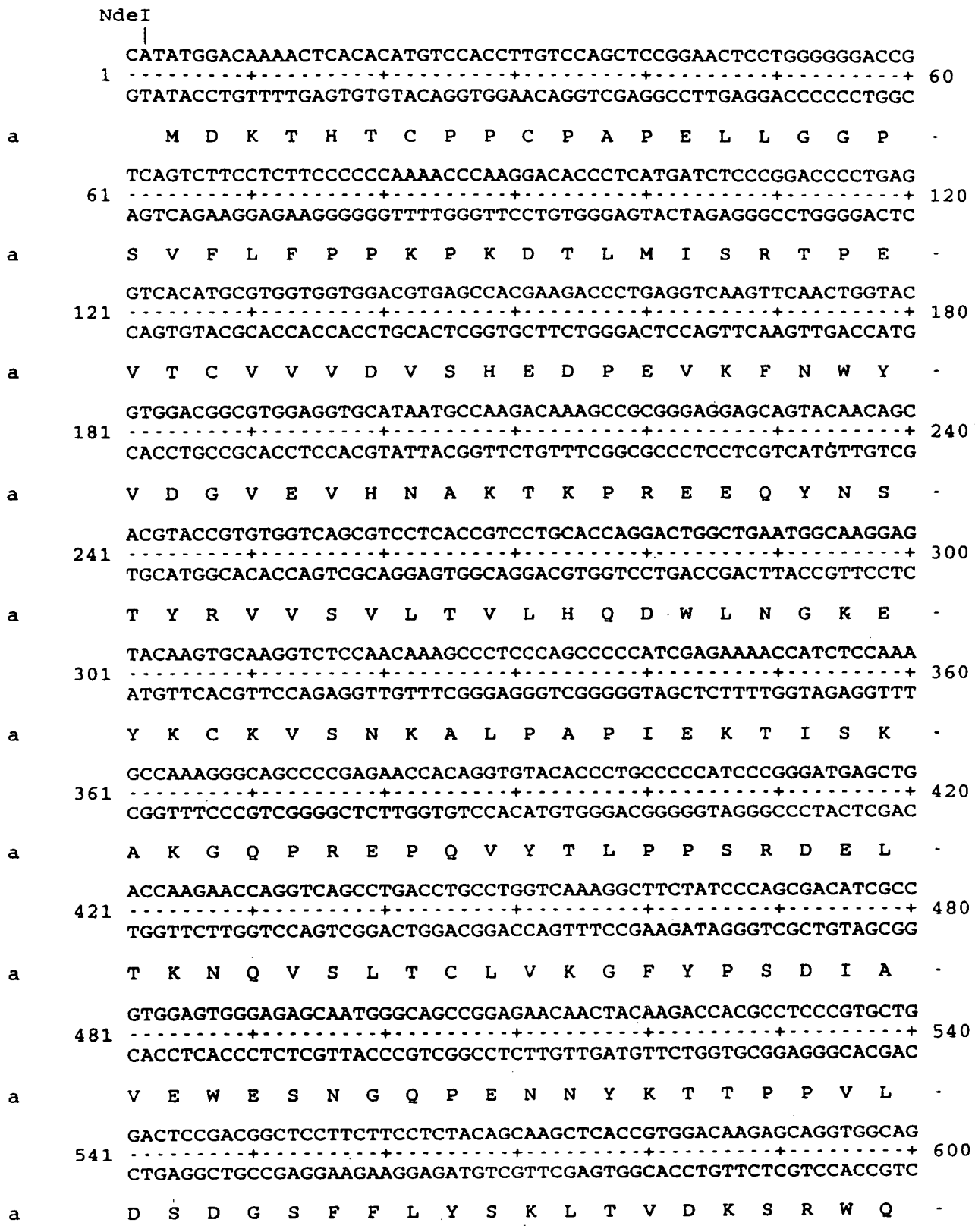
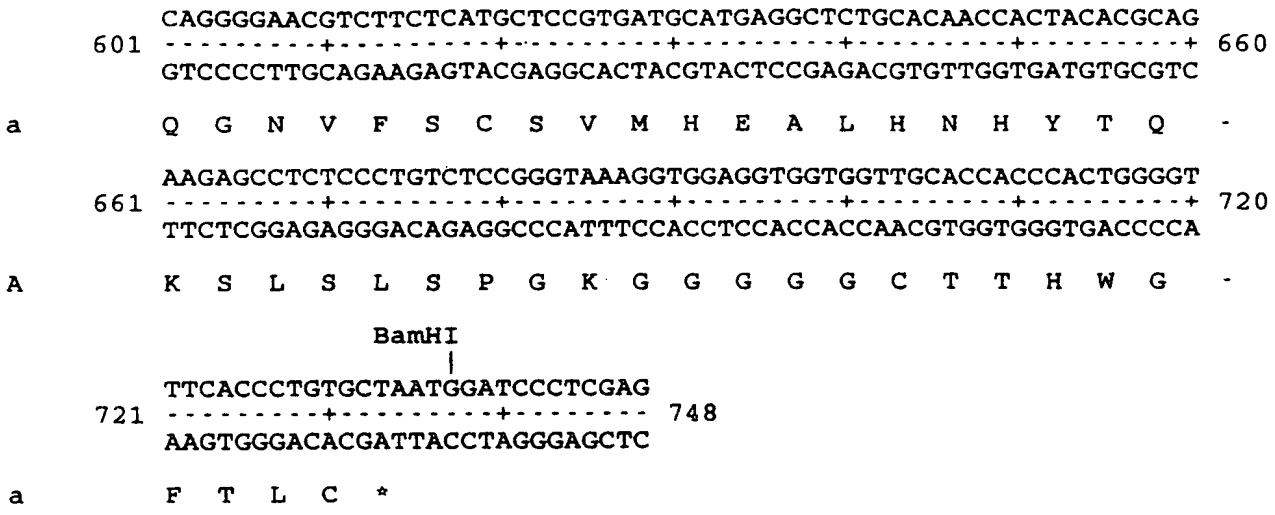


FIG.
CLASS | SUBCLASS

FIG. 25B



APPL... FIG.
... SUBCLASS
DRAFTS...

FIG. 26A

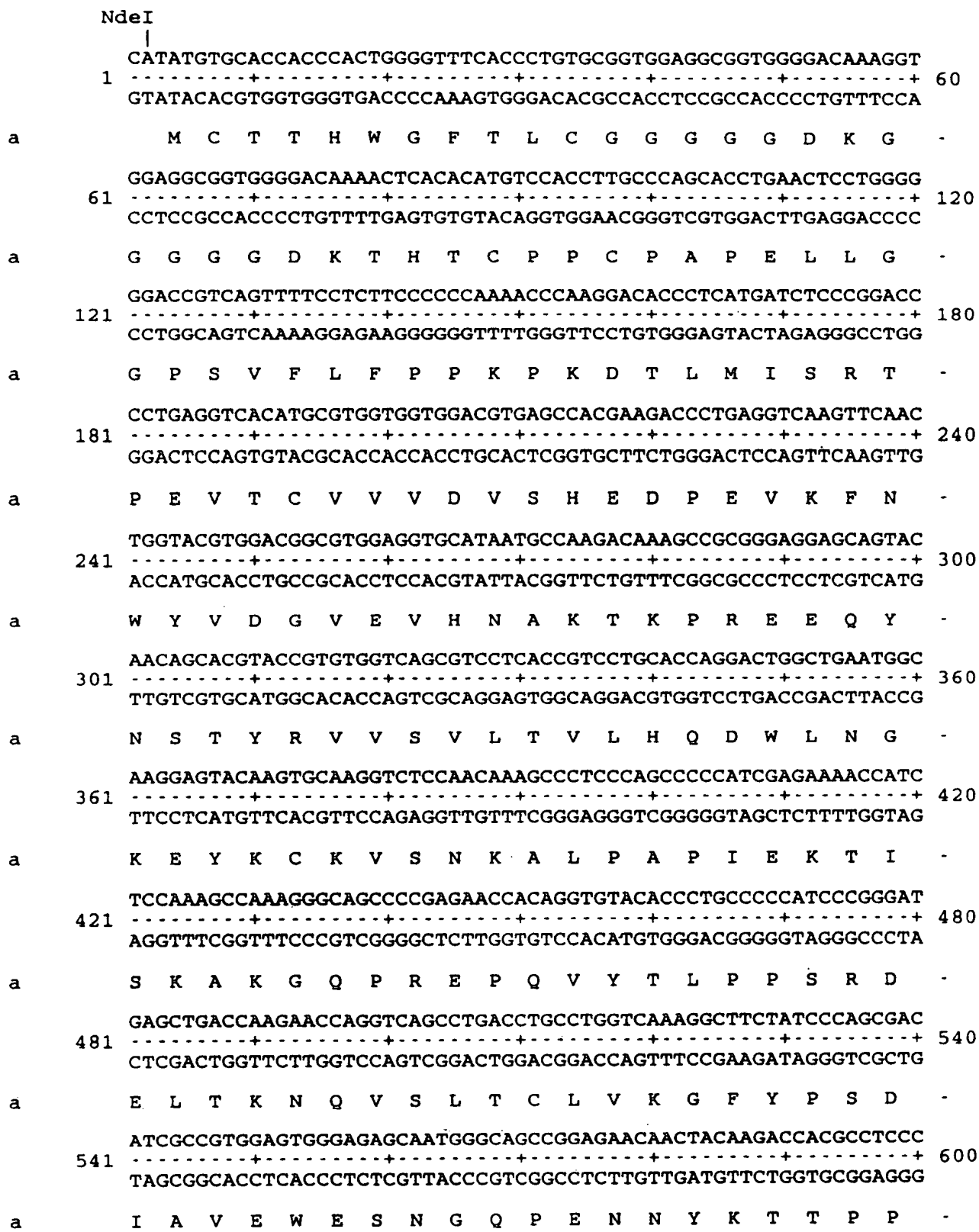


FIG.
CLASS SUBCLASS
DRAFTSM

FIG. 26B

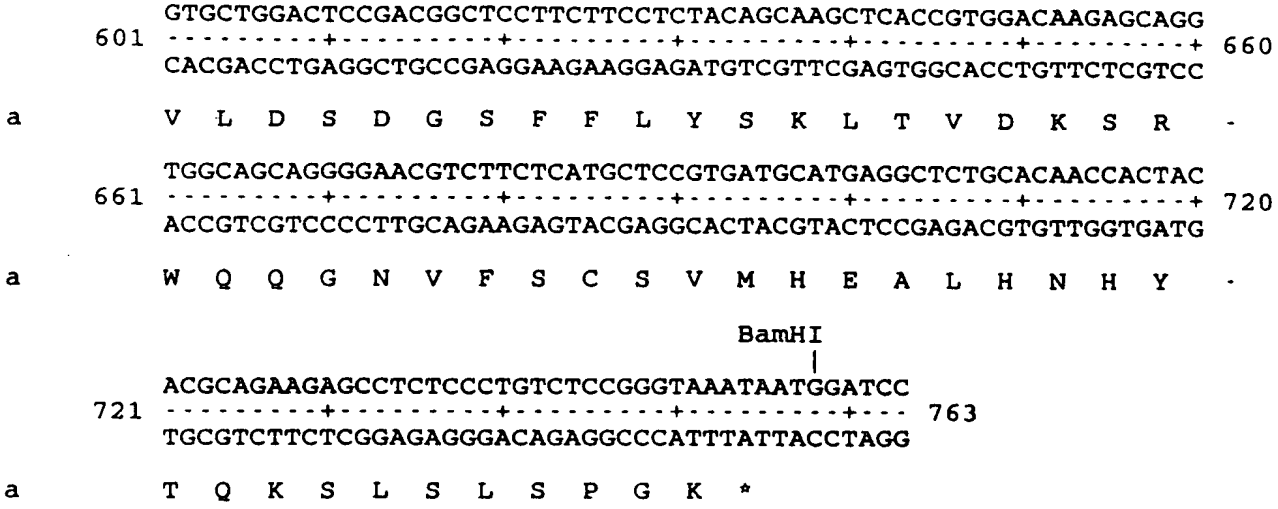


FIG. 2A

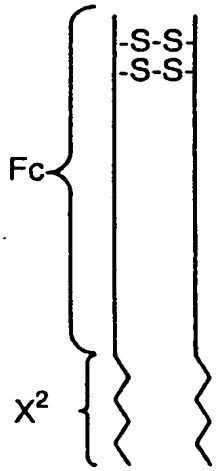


FIG. 2B

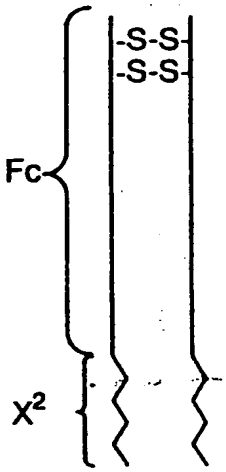


FIG. 2C

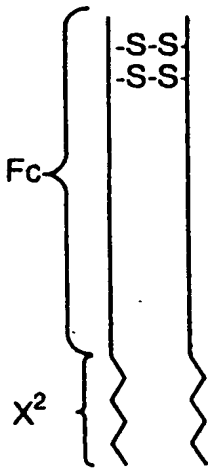


FIG. 2D

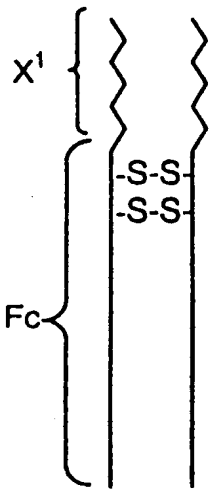


FIG. 2E

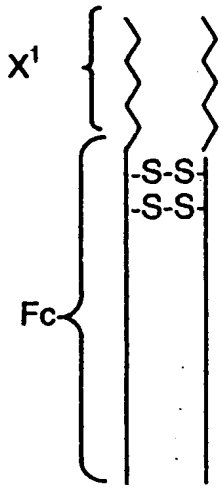
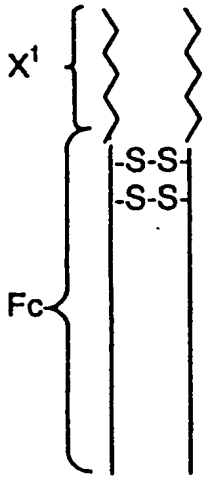



FIG. 2F